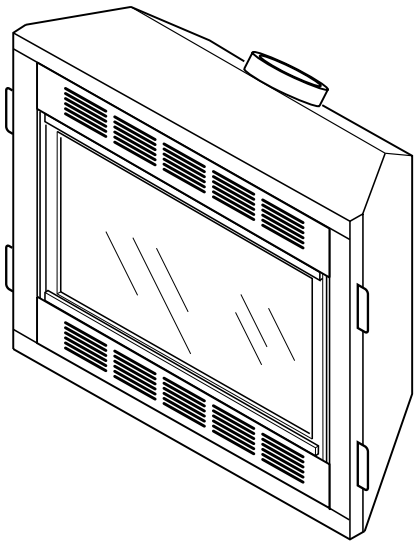
DESA INTERNATIONAL™

DIRECT-VENT FIREPLACE

OWNER'S OPERATION AND INSTALLATION MANUAL

For more information, visit www.desatech.com



NATURAL GAS
"TUDOR" MODEL (V)T32N, (V)T36N SERIES, CHDV32NR, CTDV36NR
PROPANE/LP GAS "TUDOR" MODEL (V)T32P, (V)T36P SERIES

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical switch**
- **Do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

— Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

— This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

This appliance may be installed in an aftermarket*, permanently located, manufactured (mobile) home, where not prohibited by state or local codes.

***Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.**

Save this manual for future reference.

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SAFETY INFORMATION

⚠ WARNINGS

⚠ WARNING: This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this fireplace. Improper use of this fireplace can cause serious injury or death from burns, fire, explosions, electrical shock, and carbon monoxide poisoning.

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

⚠ DANGER: Carbon monoxide poisoning may lead to death!

This fireplace must be installed by a qualified (certified or licensed) service person. It has a sealed gas combustion chamber that uses a coaxial pipe (pipe within a pipe and having the same center) venting system. It brings in fresh air for combustion through the outer pipe and combustion gases are exhausted through the inner pipe. If the glass door assembly and venting pipe are not properly seated, connected, and sealed, carbon monoxide leakage (spillage) can occur.

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the fireplace may not have been installed properly. **Get fresh air at once!** Have fireplace inspected and serviced by a qualified service person. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Propane/LP gas and natural gas are both odorless. An odor-making agent is added to each of these gases. The odor helps you detect a gas leak. However, the odor added to these gases can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this fireplace.

⚠ WARNING: Any change to this fireplace or its controls can be dangerous.

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used.
2. For propane/LP fireplace, do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
3. If you smell gas
   - shut off gas supply
   - do not try to light any appliance
   - do not touch any electrical switch; do not use any phone in your building
   - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
   - if you cannot reach you gas supplier, call the fire department.
4. Never install the fireplace
   - in a recreational vehicle
   - in windy or drafty areas where curtains or other combustible (flammable) objects can make contact with the fireplace front
   - in high traffic areas

SAFETY INFORMATION
Continued

5. This fireplace reaches high temperatures. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching.
6. Carefully supervise young children when they are in the room with fireplace.
7. Do not modify this fireplace under any circumstances. Any parts removed for servicing must be replaced prior to operating fireplace.
8. Turn fireplace off and let cool before servicing, installing, or repairing. Only a qualified service person should install, service, or repair this fireplace. Have fireplace inspected annually by a qualified service person.
9. You must keep control compartments, burners, and circulating air passages clean. More frequent cleaning may be needed due to excessive lint and dust from carpeting, bedding material, etc. Turn off the gas valve and pilot light before cleaning fireplace.
10. Have venting system inspected annually by a qualified service person. If needed, have venting system cleaned or repaired. See *Cleaning and Maintenance*, page 28.
11. Keep the area around your fireplace clear of combustible materials, gasoline, and other flammable vapor and liquids. Do not run fireplace where these are used or stored. Do not place items such as clothing or decorations on or around fireplace.
12. Do not use this fireplace to cook food or burn paper or other objects.
13. Do not use any solid fuels (wood, coal, paper, cardboard, etc.) in this fireplace. Use only the gas type indicated on fireplace nameplate.
14. This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70*, or the *Canadian Electrical Code, CSA C22.1*.
15. Do not use fireplace if any part has been exposed to or under water. Immediately call a qualified service person to arrange for replacement of the unit.
16. Do not operate fireplace if any log is broken.
17. Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this fireplace.
18. Do not operate fireplace with glass door removed, cracked, or broken.
19. Provide adequate clearances around air openings.

PRODUCT IDENTIFICATION

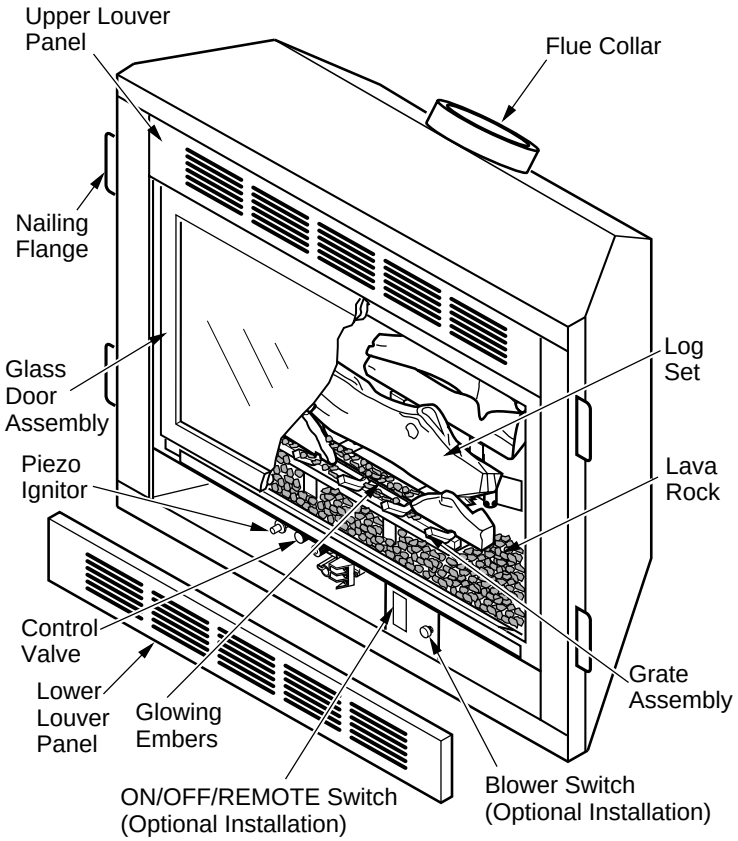


Figure 1 - Tudor Direct-Vent Fireplace with Millivolt Ignition

LOCAL CODES

Install and use fireplace with care. Follow all local codes. In the absence to local codes, use the current *National Fuel Gas Code ANSI Z223.1/*NFPA 54* (USA) or the current *CSA-B149.1 Installation Code* (Canada).

*Available from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018
National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

PRODUCT FEATURES

These are a few facts that can help you understand and enjoy your direct-vent fireplace:

- The venting system may be routed to the outside of your home in several ways. It may vent through the roof (vertical) or it may vent to an outside/exterior wall (horizontal). The vent pipe installation is very important to allow for proper operation. You must follow the venting instructions very carefully for either vertical or horizontal applications.
- This fireplace may be installed in any room of your house provided all local codes and these installation instructions are followed.
- This fireplace does not require electricity to operate.
- Only the blower requires electricity if installed and if you plan to install the blower at a later date, do not forget to wire the outlet at the bottom of the fireplace when framing.
- A piezo ignitor and ceramic electrode create spark to ignite the pilot light. It does not require any matches, batteries or any other sources of ignition to light the pilot.
- Each time you turn on your fireplace, you may notice some amount of condensation on the inside of the fireplace glass. This is normal and will disappear after 10-20 minutes of operation.
- Your direct-vent gas fireplace system (fireplace and venting) is a balanced and sealed gas operating unit. It requires approximately 10-20 minutes of operating time before the flame pattern stabilizes.

PRE-INSTALLATION PREPARATION

LOCATION AND SPACE REQUIREMENTS

Determine the safest and most efficient location for your DESA International direct-vent fireplace. Make sure that rafters and wall studs are not in the way of the venting system. Choose a location where the heat output is not affected by drafts, air conditioning ducts, windows or doors. Figure 2 shows some common locations. Be aware of all restrictions and precautions before deciding the exact location for your fireplace and termination cap.

When deciding the location of your fireplace, follow these rules:

- Do not connect this fireplace venting to a chimney flue serving a separate solid-fuel burning fireplace or appliance.
- Due to high temperatures, do not locate this fireplace in high traffic areas, windy or drafty areas, or near furniture or draperies.
- Proper clearances must be maintained.
- If your fireplace is to be installed directly on carpeting, vinyl tile, or any combustible material other than wood, it must be installed on a metal or wood panel extending the full width and depth of the fireplace. See Figure 3.
- Your fireplace is designed to be used in zero clearance installations. Wall or framing material can be placed directly against any exterior surface on the back, sides, or top of your fireplace, except where standoff spacers are integrally attached. If standoff spacers are attached to your fireplace, these spacers can be placed directly against wall or framing material. See framing details on page 5.
- If you plan on installing a television or entertainment center recessed above your fireplace, it is recommended that you maintain a minimum 18" above top of louver opening.
- When locating termination cap, it is important to observe the minimum clearances shown in Figure 7, page 6.
- If recessing into a wall, you can avoid extra framing by positioning your fireplace against an already existing framing member.
- Do not recess termination cap into a wall or siding.
- You may paint the termination cap with 450ºF (232ºC) heat-resistant paint to coordinate with the exterior finish.
- There must not be <u>any</u> obstruction such as bushes, garden sheds, fences, decks, or utility buildings within 24" from the front of the termination cap.
- Do not locate termination cap where excessive snow or ice build up may occur. Be sure to clear vent termination area after snow falls to prevent accidental blockage of venting system. When using snow blowers, do not direct snow towards vent termination area.

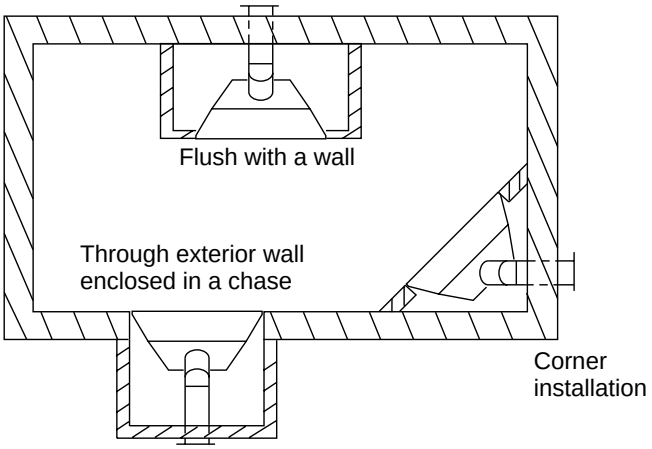
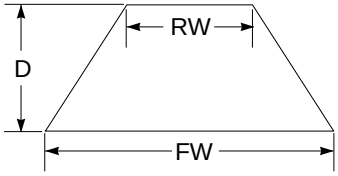


Figure 2 - Common Fireplace Locations



Fireplace size	D x FW x RW		
32"	16 5/8"	34 3/8"	22 1/2"
36"	21 1/8"	41"	29"

Figure 3 - Fireplace Bottom Dimensions

PRE-INSTALLATION PREPARATION
Continued

CLEARANCES

Minimum clearances to combustibles for the fireplace are as follows:

Back, and sides	0"/mm
Perpendicular walls	6" (152mm)
Floor	0"/mm
Ceiling to louver opening	42" (1067mm)
Front	36" (914mm)
Top	0"/mm
Vent	(See venting instructions for specific venting clearances.)

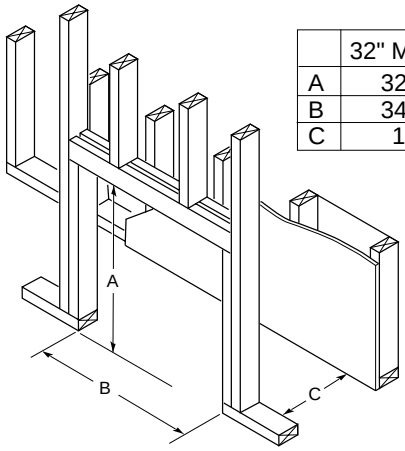
Combustible material with a maximum thickness of 5/8" may be flush with the top front of fireplace .

NOTICE: This fireplace is intended for use as supplemental heat. Use this fireplace along with your primary heating system. Do not install this fireplace as your primary heat source. If you have a central heating system, you may run system's circulating blower while using fireplace. This will help circulate the heat throughout the house. In the event of a power outage, you can use this fireplace as a heat source.

FRAMING AND FINISHING

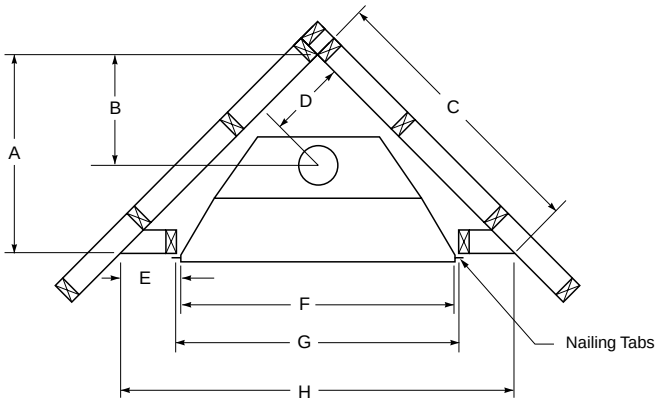
Figure 4 shows typical framing of this fireplace. Figure 5 shows framing for corner installation. All minimum clearances must be met.

For available accessories for this fireplace, see *Accessories* on page 37. If you are using a separate combustible mantel piece, refer to Figure 6 for proper installation height. You can install noncombustible mantels at any height above the fireplace. *Note:* Noncombustible mantels may discolor!



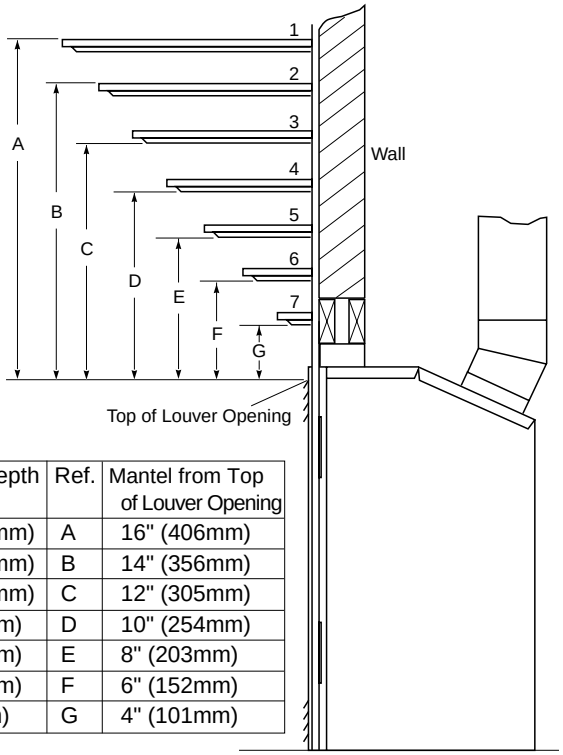
	32" Models	36" Models
A	32 3/8"	36 1/8"
B	34 5/8"	41 1/4"
C	19"	23 1/2"

Figure 4 - Framing Clearances for Installation Against an Exterior Wall



	32" Models	36" Models
A	28 1/2"	35 3/4"
B	13 5/8"	15"
C	39 3/8"	49 5/8"
D	9 1/2"	10 3/8"
E	9 7/8"	13 3/4"
F	34 3/8"	41"
G	34 5/8"	41 1/4"
H	54 1/8"	68 1/2"

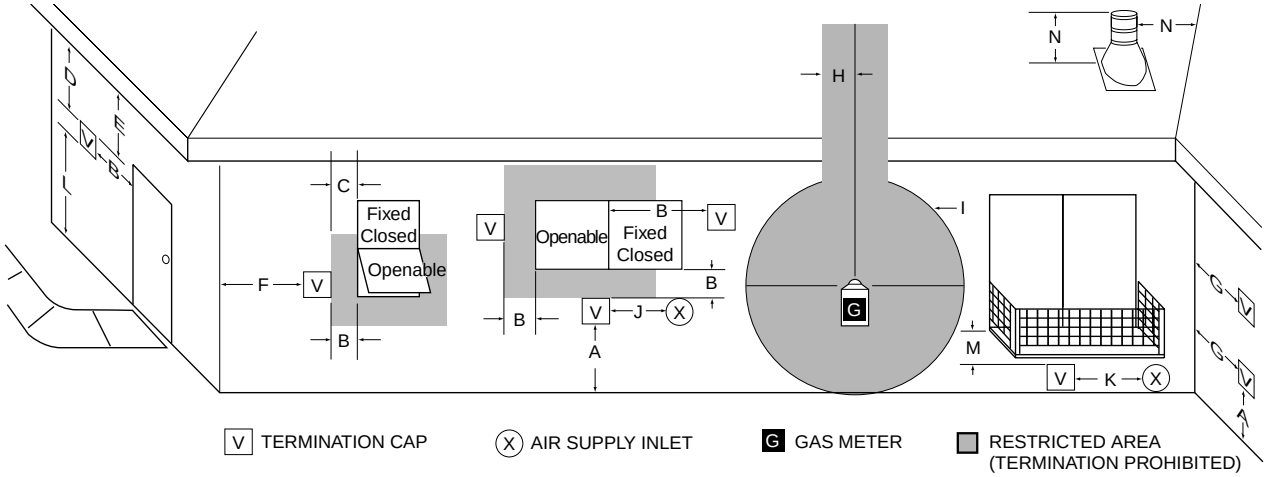
Figure 5 - Framing Clearances for Corner Installation



Ref.	Mantel Depth	Ref.	Mantel from Top of Louver Opening
1	14" (356mm)	A	16" (406mm)
2	12" (305mm)	B	14" (356mm)
3	10" (254mm)	C	12" (305mm)
4	8" (203mm)	D	10" (254mm)
5	6" (152mm)	E	8" (203mm)
6	4" (101mm)	F	6" (152mm)
7	2" (51mm)	G	4" (101mm)

Figure 6 - Clearances for Combustible Mantels

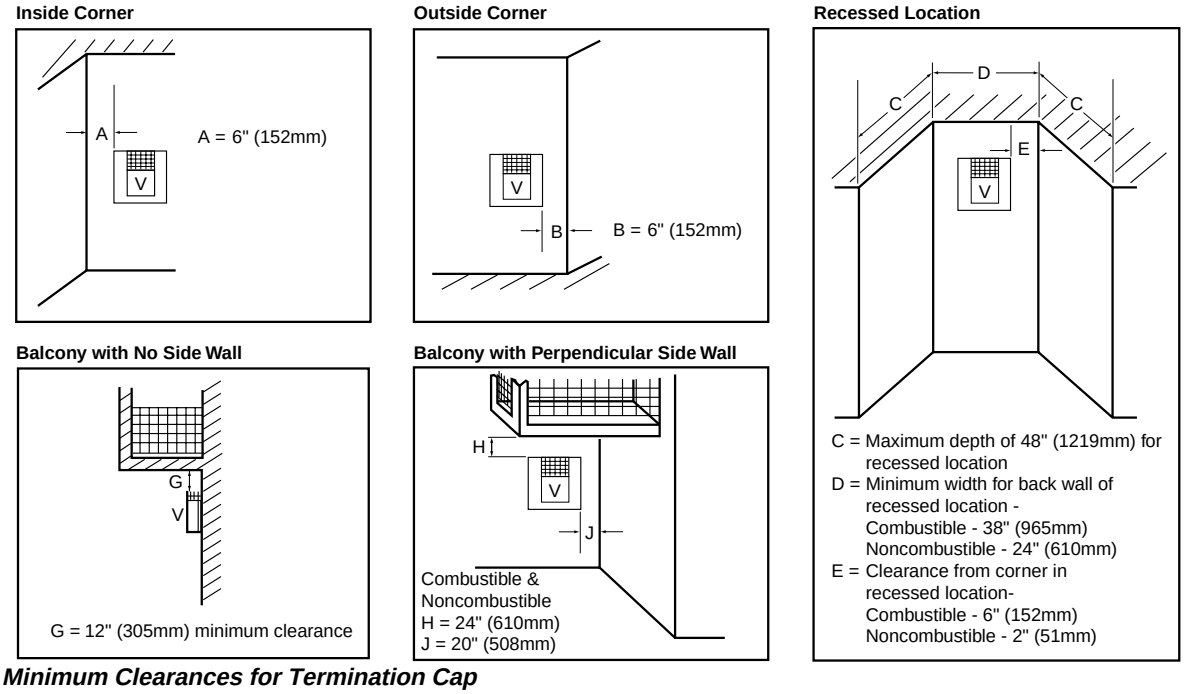
LOCATION OF TERMINATION CAP



A = clearance above grade, veranda, porch, deck, or balcony [*12 inches (305mm) minimum]
B = clearance to window or door that may be opened [12 inches (305mm) minimum]
C = clearance to permanently closed window [minimum 12 inches (305mm) recommended to prevent condensation on window]
D = vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 24 inches (610mm) from the center-line of the terminal [18 inches (457mm) minimum]
E = clearance to unventilated soffit [12 inches (305mm) minimum]
F = clearance to outside corner (see below)
G = clearance to inside corner (see below)
H = *not to be installed above a meter/regulator assembly within 36 inches (914mm) horizontally from the center-line of the regulator
I = clearance to service regulator vent outlet [*72 inches (1829mm) minimum]
J = clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other fireplace [*12 inches (305mm) minimum]
K = clearance to a mechanical air supply inlet [*72 inches (1829mm) minimum]
L = † clearance above paved side-walk or a paved driveway located on public property [*84 inches (2133mm) minimum]
M = clearance under veranda, porch, deck [*12 inches (305mm) minimum ‡]
N = clearance above a roof shall extend a minimum of 24 inches (610mm) above the highest point when it passes through the roof surface and any other obstruction within a horizontal distance of 18 inches (457mm)

† vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings*
‡ only permitted if veranda, porch, deck or balconey is fully open on a minimum of 2 sides beneath the floor*
* as specified in CAN/CSA B149 (.1 or .2) Installation Codes (1991) for Canada and U.S.A.
Note: Local codes or regulations may require different clearances

Termination Clearances for Buildings with Combustible and Noncombustible Exteriors



C = Maximum depth of 48" (1219mm) for recessed location
D = Minimum width for back wall of recessed location -
Combustible - 38" (965mm)
Noncombustible - 24" (610mm)
E = Clearance from corner in recessed location-
Combustible - 6" (152mm)
Noncombustible - 2" (51mm)

Figure 7 - Minimum Clearances for Termination Cap

VENTING INSTALLATION INSTRUCTIONS

NOTICE: Read these instructions completely before attempting installation.

These models are tested and approved for use with DESA International (direct-vent) pipe components and terminations.

The venting system must terminate on the outside of the structure and can not be attached to a chimney or flue system serving a separate solid fuel or gas burning appliance. A direct-vent appliance must have its own venting system. DO NOT common vent this appliance.

These models are approved to be vented either horizontally through an outside wall or vertically through a roof or chase enclosure using the following guidelines:

- When venting system terminates horizontally on an outside wall, you must install a standoff if the termination cap is to be installed directly on a combustible finish such as vinyl, wood, stucco, etc.
- Never run the vent downward as this may cause excessive temperatures which could cause a fire.
- Vent pipe air space clearances to combustibles are 1" on all sides except on the horizontal sections, which requires 2" clearance from the top of the pipe. Where the termination cap penetrates a combustible wall, 1" air space clearance is required.
- Snorkel terminations are required when minimum clearance to grade cannot be met (see Figure 16 on page 11).
- Have fireplace and selected vent components on hand to help determine the exact measurements when elbowing or offsetting. Always use wall firestops when penetrating walls and firestops when penetrating ceilings or attic spaces.
- Install horizontal venting with a 1/4" rise for every 12" of run toward the termination.

⚠ WARNING: Read all instructions completely and thoroughly before attempting installation. Failure to do so could result in serious injury, property damage or loss of life.

NOTICE: Failure to follow these instructions will void the warranty.

INSTALLATION PRECAUTIONS

- **Wear gloves and safety glasses for protection**
- **Use extreme caution when using ladders or when on roof tops**
- **Be aware of electrical wiring locations in walls and ceilings**

The following actions will void the warranty on your venting system:

- **Installation of any damaged venting component**
- **Unauthorized modification of the venting system (Do not cut or alter vent components)**
- **Installation of any component part not manufactured or approved by DESA International**
- **Installation other than as instructed by these instructions**

⚠ WARNING: This gas fireplace and vent assembly must be vented directly to the outside. The venting system must NEVER be attached to a chimney serving a separate solid fuel burning appliance. Each direct-vent gas appliance must use a separate vent system. Do not use common vent systems.

⚠ WARNING: Vent pipe air space clearances to combustibles are 1" on all sides except on the horizontal sections, which require 2" clearances from the top of the pipe. Where the termination cap penetrates a combustible wall, 1" air space clearance is required.

INSTALLATION PLANNING

There are two basic types of direct-vent installation:

- **Horizontal Termination**
- **Vertical Termination**

Horizontal Termination Installation

IMPORTANT: Horizontal square terminations require only inner portion of wall firestop. Horizontal installations using round termination require exterior portion of wall firestop available only in vent kit HTK (see Figure 14, page 10).

1. Set the fireplace in its desired location and determine the route your horizontal venting will take. Do not secure the fireplace until all venting has been installed. Some installations require sliding the fireplace in and out of position to make final venting connections. Figures 14 through 18 on pages 10 through 12 show different configurations for venting with horizontal termination that will help you decide which application best suits your installation. Check to see if wall studs or roof rafters are in the path of your desired venting route. If they are, you may want to adjust the location of the fireplace.

VENTING INSTALLATION INSTRUCTIONS
Continued

2. Direct vent pipe sections and components are designed with special twist-lock connections.

   Twist-Lock Procedure: The female ends of the pipes have locking lugs (indentations). These lugs will slide straight into matching slots on the male ends of adjacent pipes. Push pipe sections together and twist one section clockwise approximately one-quarter turn until the sections are fully locked (see Figure 8). *Note:* Horizontal runs of vent must be supported every three feet. Use wall straps for this purpose.
3. Use a 45° elbow to connect venting system to fireplace flue collar. The elbow is designed to be twist-locked onto the flue collar as described in step 2. *IMPORTANT:* Do not attempt to alter the configuration of the elbow by cutting, twisting, bending, etc.
4. Assemble the desired combination of pipe and elbows to the fireplace. If there are long portions of venting run, pre-assembled pipe sections may be installed as subassemblies for convenience.
5. Carefully determine the location where the vent pipe assembly will penetrate the outside wall. The center of the hole should line up with the center-line of the horizontal vent pipe. Mark the wall for a 10" x 10" square hole. Cut and frame the square hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of noncombustible material, such as masonry block or concrete, a 7 3/4" hole with zero clearance is acceptable (see Figure 9).

⚠ WARNING: Do not recess vent termination into any wall. This will cause a fire hazard.

6. **Noncombustible Exterior Wall:** Position the horizontal vent cap in the center of the 7 3/4" round hole and attach to the exterior wall with four wood screws provided. Before attaching the vent cap to exterior wall, run a bead of non-hardening mastic (pliable sealant) around the outside edges to make a seal between it and the outside wall. *Note:* The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.

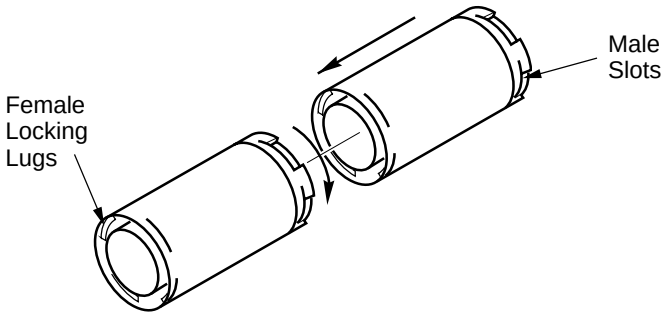


Figure 8 - Vent Pipe Connections

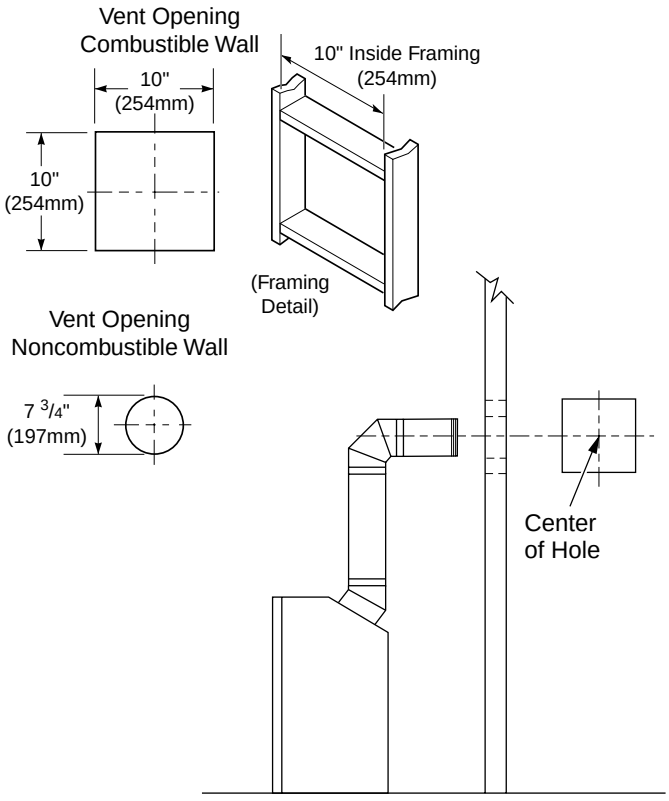


Figure 9 - Vent Opening Requirements

VENTING INSTALLATION INSTRUCTIONS
Continued

Combustible Exterior Wall: For vinyl siding, stucco, or wood exteriors, a siding standoff must be installed between the vent cap and exterior wall. The siding standoff prevents excessive heat from damaging the siding materials. Siding material must be cut to accommodate standoff. Bolt the vent cap to the standoff. Apply non-hardening mastic around outside edge of standoff. Position the standoff/cap assembly in the center of the 10" square hole and attach to exterior wall with wood screws provided (see Figure 11). The siding standoff must sit flush against the exterior fascia material.

7. Slide the wall firestop over the vent pipe before connecting horizontal run to vent cap (see Figure 12).
8. Carefully move fireplace, with vent assembly attached, toward wall and insert vent pipe into horizontal termination. The pipe overlap should be a minimum of $1^{1}/_{4}$".
9. Slide wall firestop against interior wall surface and attach with screws provided. See Figure 13, page 10 for horizontal termination details.
10. Place fireplace into position and shim with noncombustible material if needed. Nail or screw side flanges to framing to secure unit in place. *IMPORTANT:* Make sure fireplace is level before securing. If fireplace is not level it will not work properly.

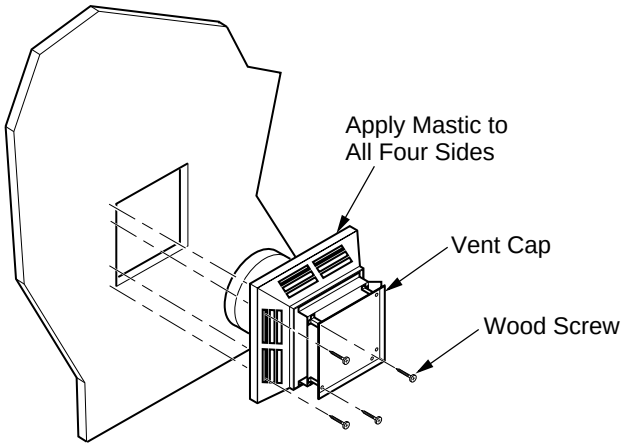


Figure 10 - Installing Horizontal Vent Cap

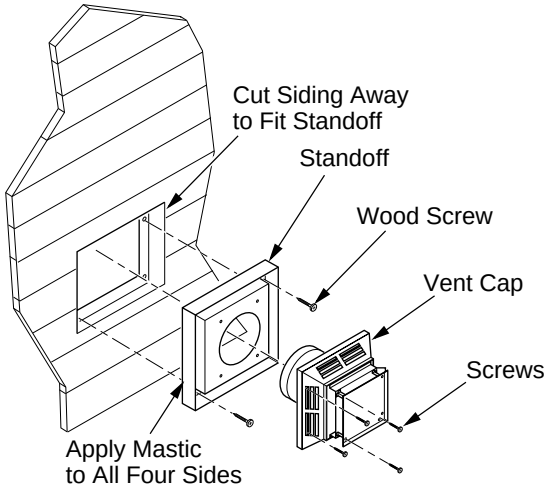


Figure 11 - Installing Siding Standoff

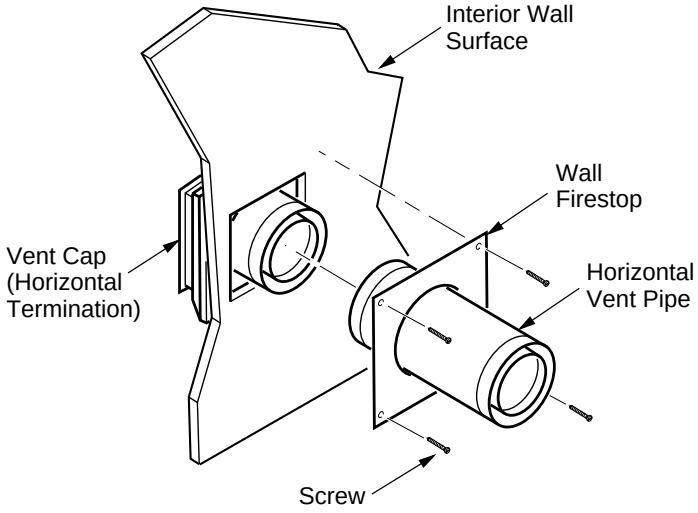


Figure 12 - Connecting Vent Cap with Horizontal Vent Pipe

VENTING INSTALLATION INSTRUCTIONS
Continued

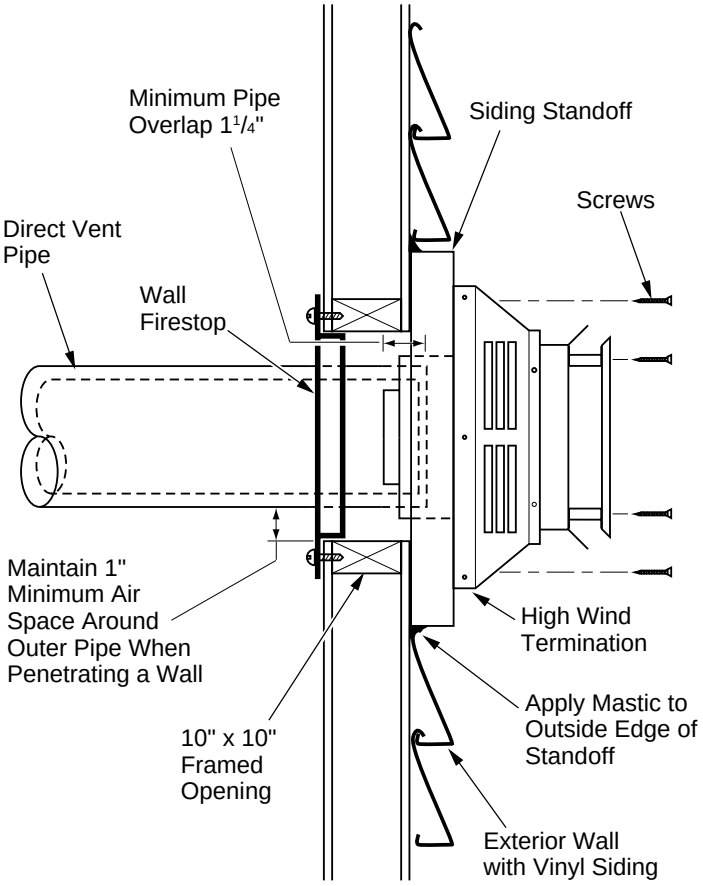

Minimum Pipe Overlap 1¼"
Siding Standoff
Screws
Direct Vent Pipe
Wall Firestop
Maintain 1" Minimum Air Space Around Outer Pipe When Penetrating a Wall
High Wind Termination
Apply Mastic to Outside Edge of Standoff
10" x 10" Framed Opening
Exterior Wall with Vinyl Siding

Figure 13 - Typical Horizontal Termination Cap Mounting with Additional Siding Standoff Installed

Horizontal Termination Configurations

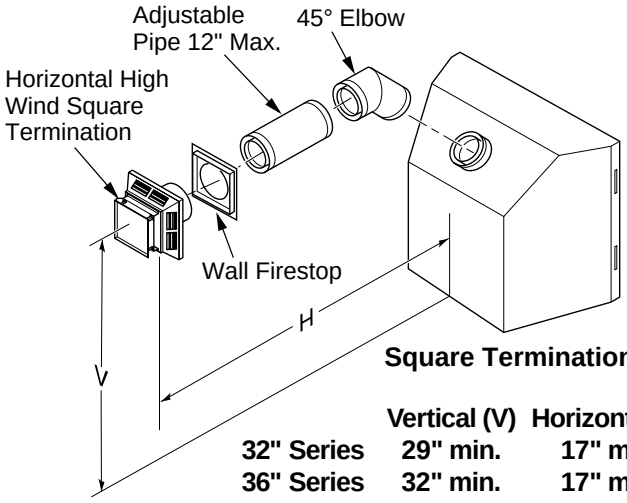
Figures 14 through 18 show different configurations and alternatives for venting with horizontal termination. Each figure includes a chart with critical minimum and maximum dimensions which MUST be met. *IMPORTANT:* Remember that a horizontal run of venting must have a 1/4" rise for every 12" of run toward the termination.

⚠ WARNING: Never run vent downward as this may cause excessive temperatures which could cause a fire. Operation of improperly installed and maintained venting system could result in serious injury, property damage or loss of life.

GROUND FLOOR INSTALLATION

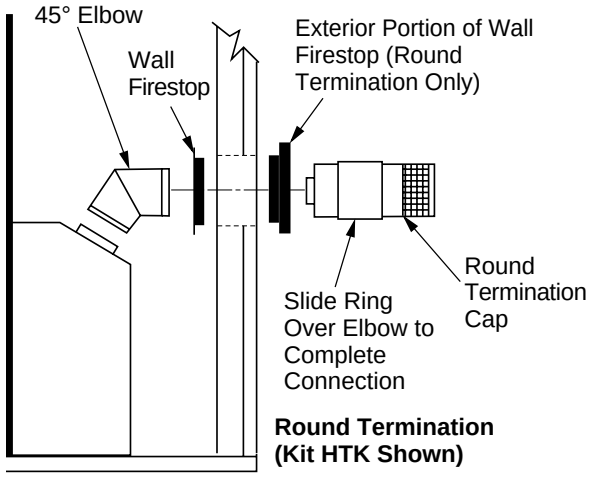
Recommended Applications:

- Installation using cabinet surrounds
- Through the wall using round or square termination (up to 12" horizontal pipe)
- NOT FOR CORNER INSTALLATION



Square Termination

	Vertical (V)	Horizontal (H)
32" Series	**29" min.**	**17" max.**
36" Series	**32" min.**	**17" max.**


45° Elbow
Wall Firestop
Exterior Portion of Wall Firestop (Round Termination Only)
Slide Ring Over Elbow to Complete Connection
Round Termination Cap

Round Termination (Kit HTK Shown)

Figure 14 - Horizontal Termination Configuration for Square and Round Terminations

VENTING INSTALLATION INSTRUCTIONS
Continued

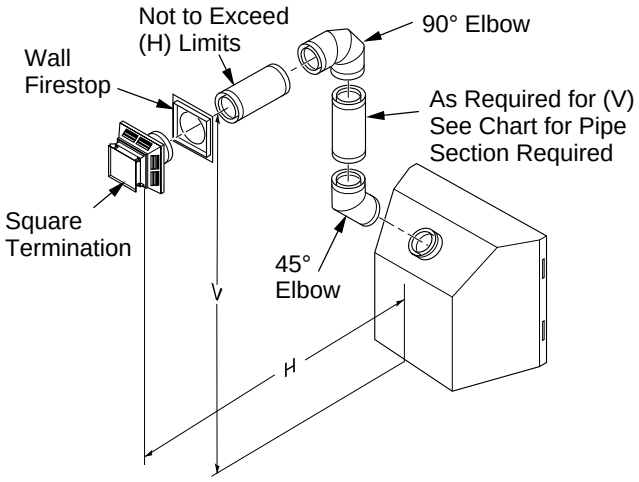
CORNER AND ALTERNATE INSTALLATION

Recommended Applications:

- Corner ground floor installation
- Ground floor installation where pipe vents horizontally through wall (over 12" horizontal pipe)
- Basement installation where one foot clearance from ground to termination is possible

Vertical (V) 32"	Vertical (V) 36"	Required Vertical Pipe	Horizontal (H) (32"/36")
*40 1/2" min.	43 1/4" min.	None	30" max.
51 1/2" min.	54 1/4" min.	1 ft.	48" max.
63 1/2" min.	66 1/4" min.	2 ft.	60" max.
75 1/2" min.	78 1/4" min.	3 ft.	84" max.
87 1/2" min.	90 1/4" min.	4 ft.	20' max.

***Note:** Ground Floor Corner Venting



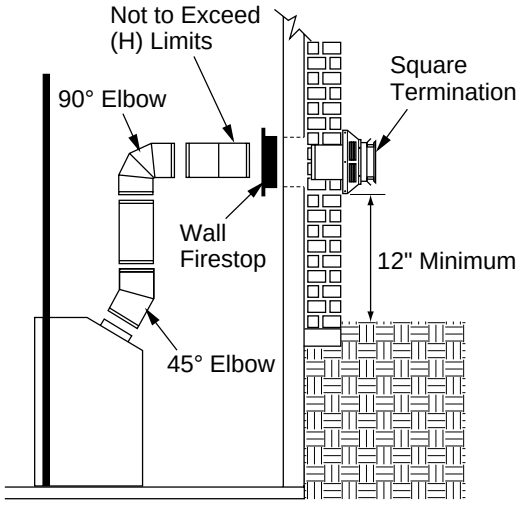


Figure 15 - Horizontal Termination Configuration for Corner Installation Using One 90° Elbow

SNORKEL TERMINATION INSTALLATION

Recommended Applications:

- Installations requiring a vertical rise on building exterior
- Any installation using snorkel termination to achieve one foot above ground

Snorkel terminations are available for installations requiring a vertical rise on the exterior of the building. If installing snorkel termination below grade, you must provide proper drainage to prevent water from entering snorkel termination (see Figure 16). Do not back fill around snorkel termination.

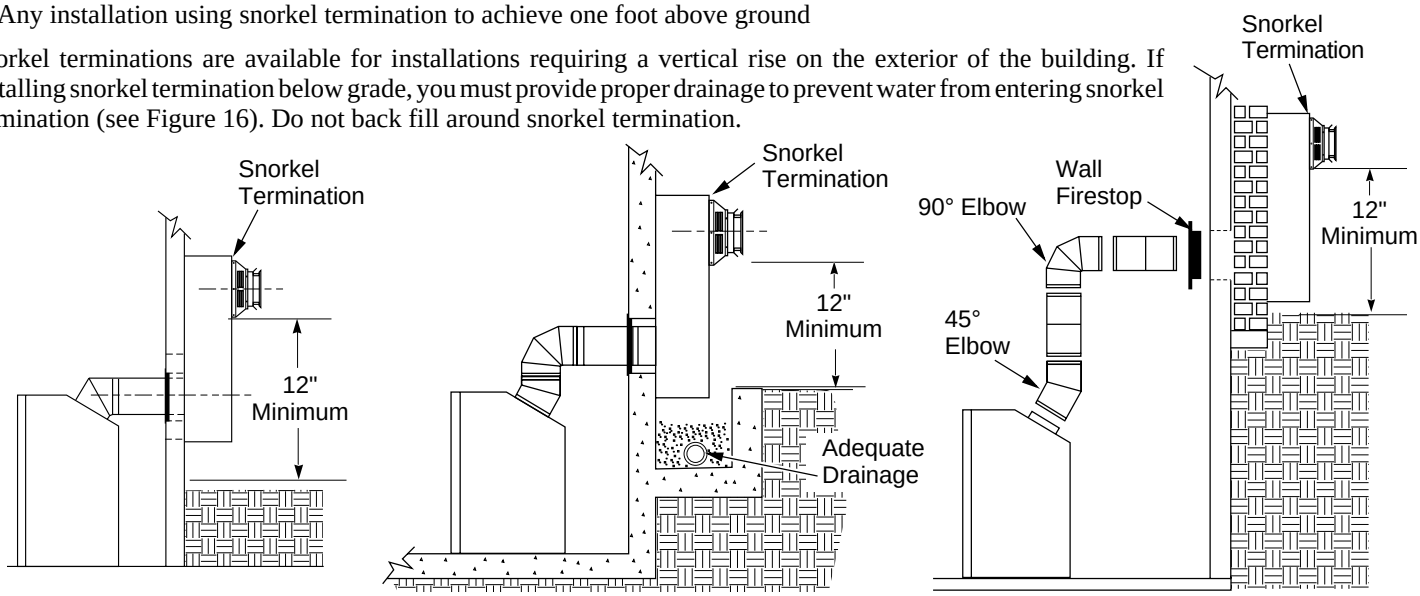


Figure 16 - Snorkel Termination Configurations for Below Ground Installation

VENTING INSTALLATION INSTRUCTIONS
Continued

HORIZONTAL SYSTEM INSTALLATION USING TWO 90° ELBOWS

The following configurations show the minimum vertical rise requirements for a horizontal system using two 90° elbows.

Venting with Two 90° Elbows

Vertical (V)	Horizontal (H_1)	Horizontal (H_1) + Horizontal (H_2)
5' min.	2' max.	6' max.
6' min.	4' max.	12' max.
7' min.	6' max.	18' max.
8' min.	8' max.	20' max.
20' max.	8' max.	20' max.

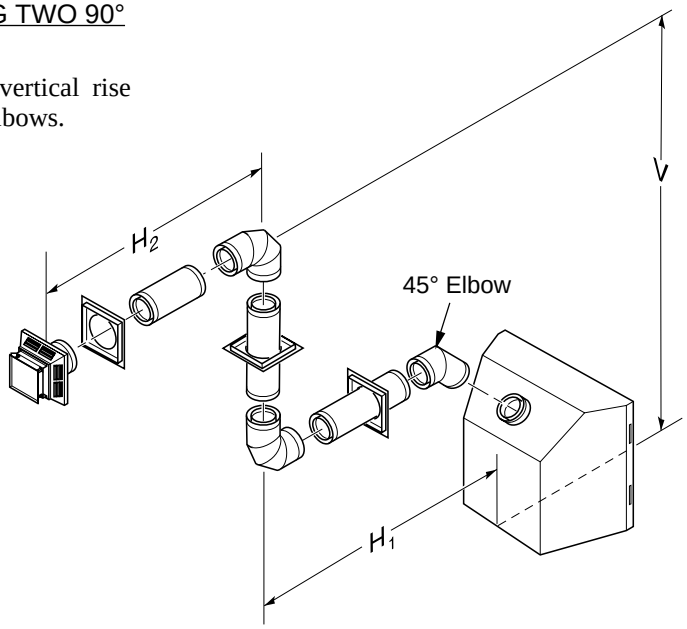


Figure 17 - Horizontal Termination Configuration for Venting Using Two 90° Elbows

Venting with Two 90° Elbows

Vertical (V)	Horizontal (H_1) + Horizontal (H_2)
5' min.	6' max.
6' min.	12' max.
7' min.	18' max.
8' min.	20' max.
20' max.	20' max.

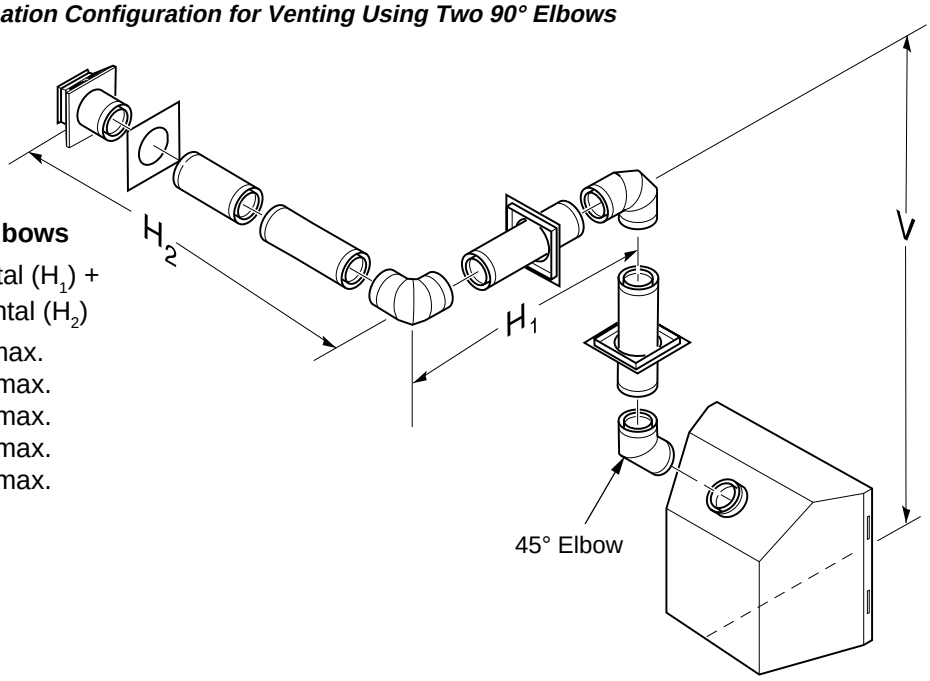


Figure 18 - Horizontal Termination Configuration for Venting Using Two 90° Elbows with Termination at 90° with Fireplace

VENTING INSTALLATION INSTRUCTIONS
Continued

INSTALLATION FOR VERTICAL TERMINATION

Note: Vertical restrictor must be installed in all vertical installations.

1. Determine the route your vertical venting will take. If ceiling joists, roof rafters, or other framing will obstruct the venting system, consider an offset (see Figure 19) to avoid cutting load bearing members. *Note:* Pay special attention to these installation instructions for required clearances (air space) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, etc. Do not pack air spaces with insulation. Also note maximum vertical rise of the venting system and any maximum horizontal offset limitations.
2. Set the fireplace in desired location. Drop a plumb line down from the ceiling to the position of the fireplace exit flue. Mark the center point where the vent will penetrate the ceiling. Drill a small locating hole at this point.

   Drop a plumb line from the inside of the roof to the locating hole in the ceiling. Mark the center point where the vent will penetrate the roof. Drill a small locating hole at this point.

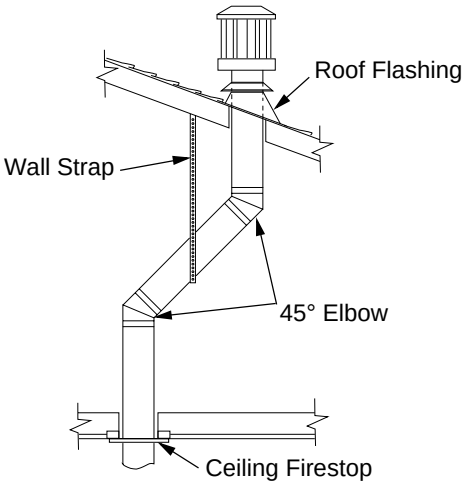


Figure 19 - Offset with Wall Strap and 45° Elbows

Flat Ceiling Installation

1. Cut a 10" square hole in the ceiling using the locating hole as a center point. The opening should be framed to 10"x10" (254mm x 254mm) inside dimensions, as shown in Figure 9 on page 8 using framing lumber the same size as the ceiling joists. If the area above the ceiling is an insulated ceiling or a room, nail firestop from the top side. This prevents loose insulation from falling into the required clearance space. Otherwise, install firestop below the framed hole. The firestop should be installed with no less than three nails per side (see Figure 20).
2. Assemble the desired lengths of pipe and elbows necessary to reach from the fireplace flue up through the firestop. Be sure all pipe and elbow connections are fully twist-locked (see Figure 8, page 8).
3. Cut a hole in the roof using the locating hole as a center point. (Cover any exposed open vent pipes before cutting hole in roof.) The 10"x10" hole must be measured on the horizontal; actual length may be larger depending on the pitch of the roof. There must be a 1" clearance from the vent pipe to combustible materials. Frame the opening as shown in Figure 9, page 8.
4. Connect a section of pipe and extend up through the hole.

   Note: If an offset is needed to avoid obstructions, you must support the vent pipe every 3 feet. Use wall straps for this purpose (see Figure 19). Whenever possible, use 45° elbows instead of 90° elbows. The 45° elbow offers less restriction to the flow of the flue gases and intake air.
5. Place the flashing over the pipe section(s) extending through the roof. Secure the base of the flashing to the roof and framing with roofing nails. Be sure roofing material overlaps the top edge of the flashing as shown in Figure 19. There must be a 1" clearance from the vent pipe to combustible materials.
6. Continue to add pipe sections until the height of the vent cap meets the minimum building code requirements described in Figure 7 on page 6. *Note*: You must increase vent height for steep roof pitches. Nearby trees, adjoining roof lines, steep pitched roofs, and other similar factors may cause poor draft or down-drafting in high winds. Increasing the vent height may solve this problem.
7. Twist-lock the vent cap onto the last section of vent pipe.

Note: If the vent pipe passes through any occupied areas above the first floor, including storage spaces and closets, you must enclose pipe. You may frame and sheetrock the enclosure with standard construction material. Make sure and meet the minimum allowable clearances to combustibles. Do not fill any of the required air spaces with insulation.

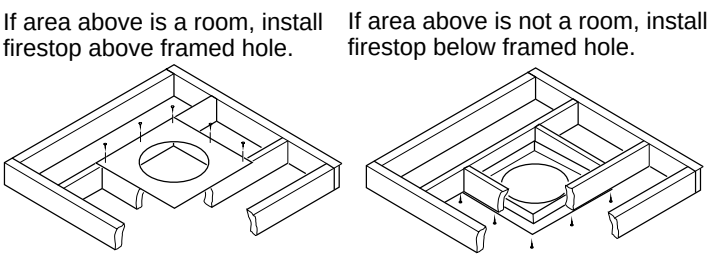


Figure 20 - Installing Firestop

VENTING INSTALLATION INSTRUCTIONS
Continued

Vertical Termination Configurations

Figures 21 through 24 show four different configurations for vertical termination.

Venting with Two 90° Elbows

Vertical (V)	Horizontal (H_1) + Horizontal (H_2)
5' min.	2' max.
6' min.	4' max.
7' min.	6' max.
8' min.	8' max.
20' max.	8' max.

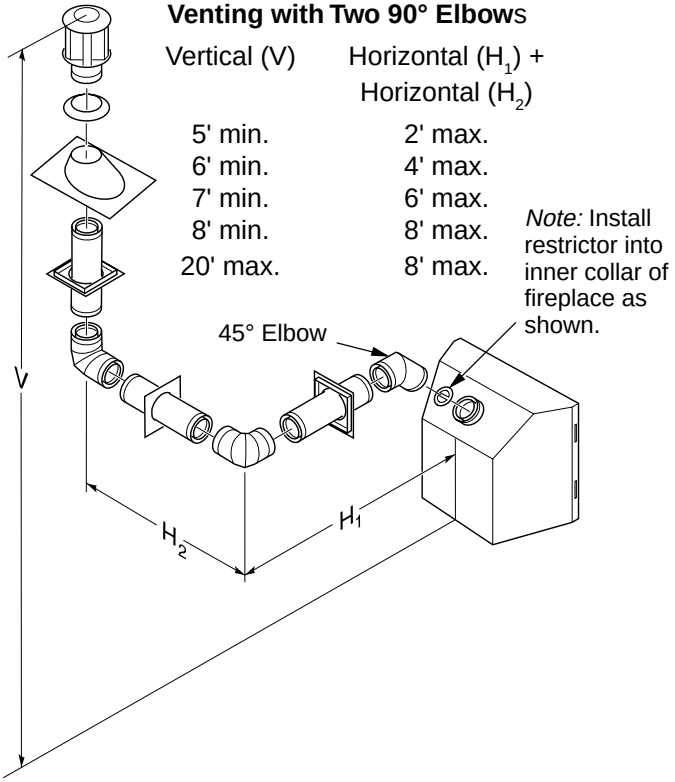


Figure 21 - Vertical Venting Configuration Using Two 90° Elbows with Two Horizontal Runs (Vertical Round High Wind Termination Shown)

Venting with One 90° Elbow

Vertical (V)	Horizontal (H)
5' min.	2' max.
6' min.	4' max.
7' min.	6' max.
8' min.	8' max.
20' max.	8' max.

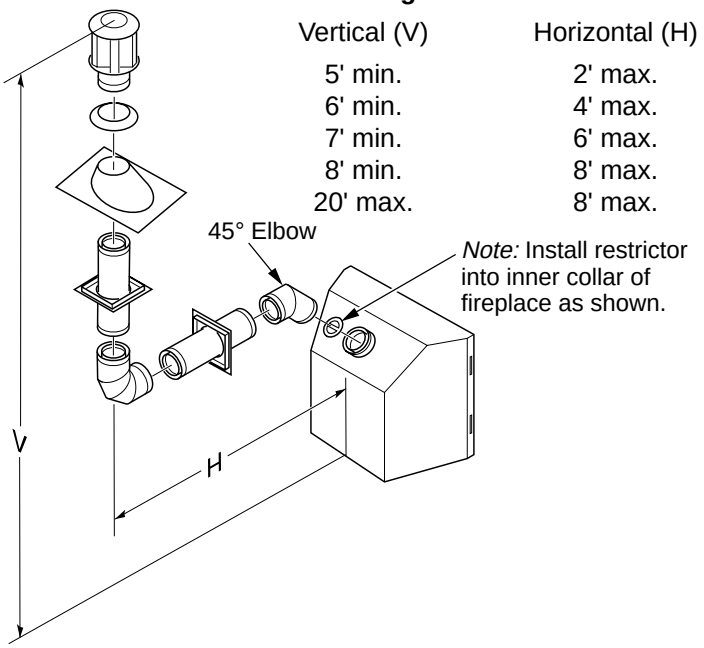


Figure 22 - Vertical Venting Configuration Using One 90° Elbow (Vertical Round High Wind Termination Shown)

Venting with Two 90° Elbows

Vertical (V_1)	Horizontal (H)
5' min.	6' max.
6' min.	12' max.
7' min.	18' max.
8' min.	20' max.

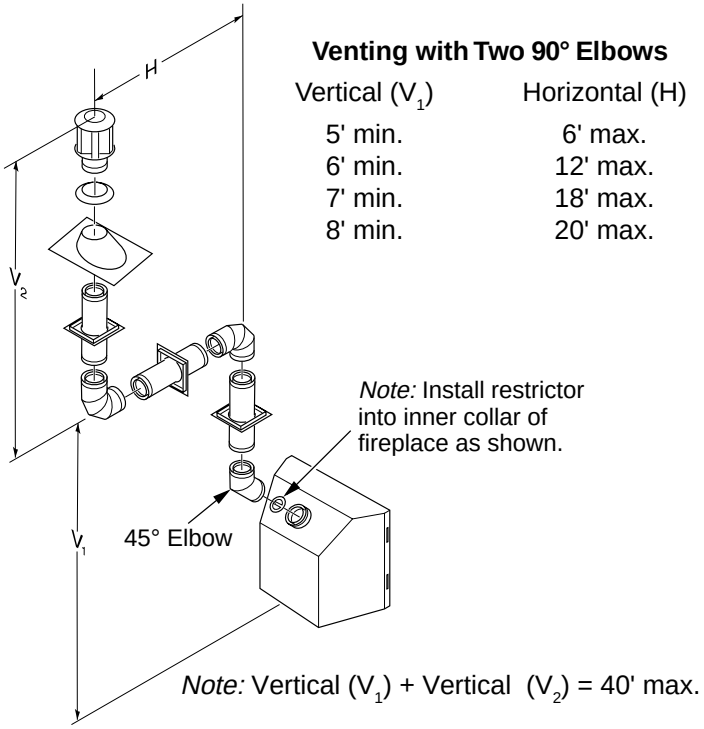


Figure 23 - Vertical Venting Configuration Using Two 90° Elbows (Vertical Round High Wind Termination Shown)

VENTING INSTALLATION INSTRUCTIONS
Continued

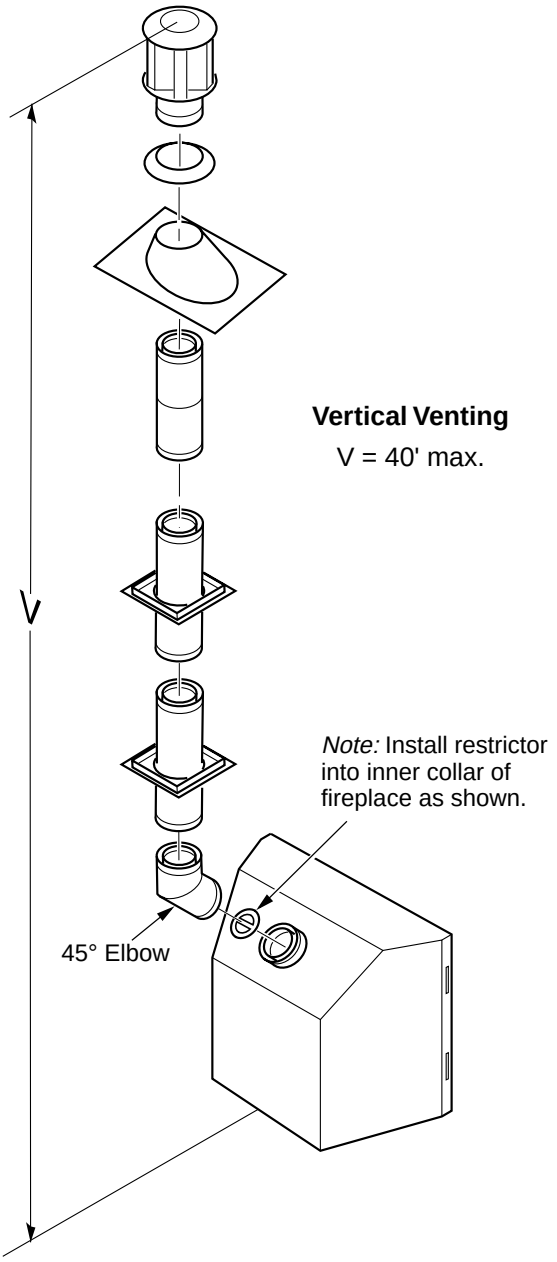


Figure 24 - Vertical Venting Configuration With No Horizontal Run (Vertical Round High Wind Termination Shown)

HIGH ALTITUDE INSTALLATION

Your DESA International direct-vent fireplace has been CSA tested and approved for elevations from 0-2000 feet (USA) and elevations from 0-4500 feet (Canada) .

When installing this fireplace at an elevation above 2000 feet (in the USA), you may need to decrease the input rating by changing the existing burner orifice to a smaller size. Reduce input 4% for each 1000 feet above sea level. Check with your local gas company for proper orifice size identification.

When installing this fireplace at an elevation above 4500 feet (in Canada), check with local authorities.

Consult your local gas company to help determine the proper orifice for your location.

For assistance with any high altitude installation contact DESA International's Customer Service Department at 1-866-672-6040.

VENTING INSTALLATION INSTRUCTIONS
Continued

PARTS LISTS FOR VENTING KITS AND COMPONENTS

DESA International Pipe & Vent Kits

Number	Description
P47-6	6" Section Coaxial Pipe - Galvanized
P47-12	12" Section Coaxial Pipe - Galvanized
P47-24	24" Section Coaxial Pipe - Galvanized
P47-36	36" Section Coaxial Pipe - Galvanized
P47-48	48" Section Coaxial Pipe - Galvanized
PA47-712	Adjustable 7"-12" Section Coaxial Pipe - Galvanized
VKG-47	Ground Floor Vent Kit - Galvanized Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, Horizontal Square Termination, and 16 Screws
VKB-47	Basement Vent Kit - Galvanized Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, Horizontal Square Termination, 4' Pipe, 90° Elbow, and 20 Screws
VKS-47	Snorkel Kit - Galvanized Includes: 45° Elbow, 7"-12" Adjustable Pipe, Wall Firestop, 36" Snorkel Termination, 4' Pipe, 90° Elbow, and 26 Screws
VKR-47	Roof Vent Kit - Galvanized Includes: 45° Elbow, 7"-12" Adjustable Pipe, Flue Restrictor, Vertical High Wind Termination, 2' Pipe, 4' Pipe, Firestop Plate, Roof Flashing (0/12-6/12), and 26 Screws
VKC-47	Corner Vent Kit - Galvanized Includes: 45° Elbow, 7"-12" Adjustable Pipe, Horizontal Termination, 6" Pipe, 90° Elbow, Wall Firestop, and 18 Screws
HTK	Horizontal Round Termination Kit Includes: Round Termination, Wall Firestop, and 45° Elbow

DESA International Elbows

Number	Description
E47-45	45° Elbow - Galvanized
E47-90	90° Elbow - Galvanized

DESA International Terminations

Number	Description
HT-47	Horizontal Round Termination - Galvanized
HTS-47	Horizontal Square Termination - Galvanized
VT-47	Vertical Round Termination - Galvanized
ST-47-14	14" Snorkel Termination - Galvanized
ST-47-36	36" Snorkel Termination - Galvanized

DESA International Venting Accessories

Number	Description
SC-47	Storm Collar - Galvanized
WF-47	Wall Firestop - Galvanized
RF-47-6	Roof Flashing - 0 to 6/12 Pitch - Galvanized
RF-47-12	Roof Flashing - 6/12 to 12/12 Pitch - Galvanized
VR-47	Vertical Restrictor - Galvanized
S-47	Combustible Siding Standoff - Galvanized
WS-47	Wall Strap
FP-47	Firestop Plate

FIREPLACE INSTALLATION

CHECK GAS TYPE

Use proper gas type for the fireplace unit you are installing. If you have conflicting gas types, do not install fireplace. See retailer where you purchased the fireplace for proper fireplace according to your gas type.

INSTALLING OPTIONAL BLOWER ACCESSORIES

NOTICE: If installing blower in an existing fireplace with gas connections, shut off gas supply and disconnect heater from gas supply. Contact a qualified service person to do this.

⚠ WARNING: If there is a duplex electrical outlet installed in the right side of the bottom of the fireplace base area, be sure that the electrical power to the outlet is turned off before proceeding with blower installation. Failure to do this may result in serious injury.

Model BK Installation

Follow all instructions provided in the blower accessory kit.

1. Attach the power cord to the blower motor by firmly pushing the two female terminals at the end of the power cord onto the two spade terminals on the blower motor (see Figure 25, page 17).
2. Attach green ground wire from power cord to blower housing using screw provided (see Figure 25, page 17). Tighten screws securely.

FIREPLACE INSTALLATION
Continued

3. Place the blower against the lower rear wall of the firebox outer wrapper with the exhaust port directed upward. The blower will fit inside the back opening and be held in position against the back wall by the magnets (see Figure 25).
4. Be certain that all wire terminals are securely attached to terminals on blower motor and that the screw retaining the green ground wire is tight.
5. Mount speed control box to switch bracket by placing the plastic control shaft forward through the opening in the switch bracket (see Figure 26).
6. While supporting speed control, secure control shaft with lock nut by pushing and turning lock nut with pliers clockwise until it is tight against front panel. Place control knob provided on shaft.
7. Turn on power to duplex outlet if previously turned off per the warning in column 2, page 16.
8. Plug in blower power cord.
   a. **If your firebox is installed as a freestanding unit with an accessory mantel,** determine whether the power cord will exit the left side or the right side of the firebox. Route power cord through exit hole and plug the power cord into a wall receptacle near the firebox.
   b. **If your firebox installation is recessed and/or pre-wired,** plug the power cord into the duplex outlet provided. Refer to your firebox owner's manual for instructions on wiring the duplex outlet.

⚠ CAUTION: Never touch the blower wheel while in operation.

9. Check to make sure that the power cord is completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Turn blower on and check for operation. Turn blower off by turning knob fully counterclockwise before continuing.
10. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 12" in front of the blower (see Figure 27).

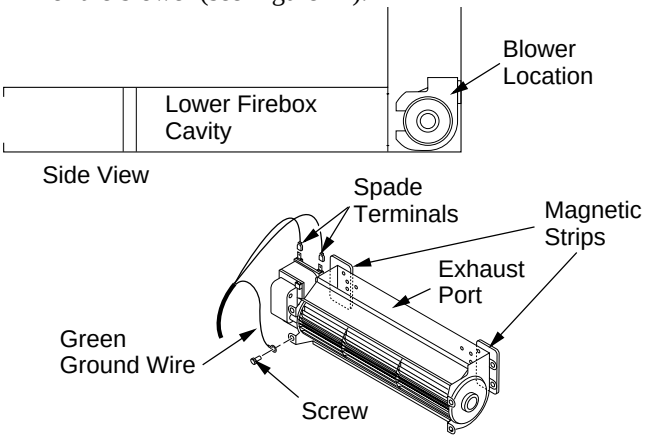


Figure 25 - Blower Model BK

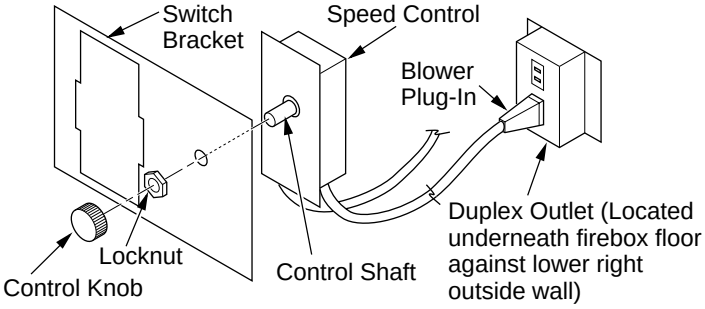


Figure 26 - Attaching Speed Control to Firebox

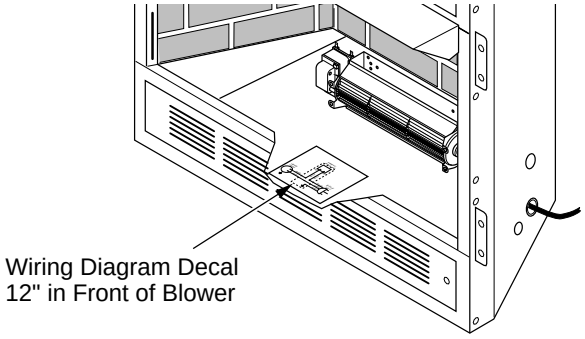


Figure 27 - Location of Wiring Diagram Decal (Model May Vary From Illustration)

Model BKT Installation

Note: When installing the BKT thermostatically-controlled blower, you must first secure the thermal switch bracket to the blower if it has not already been factory installed.

1. Place the green ground wire with ring terminal between the bottom hole on the thermal switch bracket and the top ear hole on the blower assembly. Insert the phillips screw into all three pieces and tighten securely (see Figure 28, page 18).
2. Connect wire harness and power cord terminals. Connect the blue jumper wire to the blower motor terminal and the right side terminal of the thermal switch. Connect the black wire to the left side of the thermal switch and the white wire to the other remaining blower motor terminal.

Note: The power cord outer insulation sleeve may have to be stripped slightly to allow enough wire length to reach and make all connections. DO NOT trim excessive length away. Just enable enough to make all connections securely.

FIREPLACE INSTALLATION
Continued

3. Place the blower against the lower rear wall of the firebox outer wrapper with the exhaust port directed upward and the thermodisc positioned up near the fireplace bottom. The thermodisc must be oriented near the fireplace bottom as shown in Figure 28 in order to sense temperature and properly operate. The blower will be held in position against the back wall by the magnets incorporated onto the blower housing (see Figure 28).
4. Be certain that all wire terminals are securely attached to terminals on blower motor and thermal switch, and that the screw for the thermodisc bracket and green ground wire is tight.
5. Mount the speed control box against the mounting plate provided in the lower fireplace cavity by placing the plastic control shaft forward through the round hole (see Figure 26, page 17).
6. While supporting speed control, secure control shaft with lock nut by pushing and turning lock nut with pliers clockwise until it is tight against mounting plate. Place control knob provided on shaft (see Figure 26, page 17).
7. Check to make sure that the power cord is completely clear of the blower wheel and that there are no other foreign objects in blower wheel. Also double check all wire leads and make sure wire routing is not pinched or in a precarious position. Correct accordingly.
8. Turn on power to duplex outlet if previously turned off per the warning in column 2, page 16.
9. Plug in blower power cord to duplex outlet.
10. The blower will only run when the speed control knob is in the ON position and the thermal switch senses temperature after the fireplace begins to heat up. The blower speed can be adjusted by rotating the control knob. To turn off, turn knob fully counterclockwise until it clicks off. If the blower is ON and has been running with the fireplace operating, the blower will continue to run for a short time after the fireplace has been turned off. As the thermal switch cools down, the blower shuts down automatically.
11. Peel off the backing paper and stick the supplied wiring diagram decal on the firebox bottom approximately 12" in front of the blower (see Figure 27, page 17).

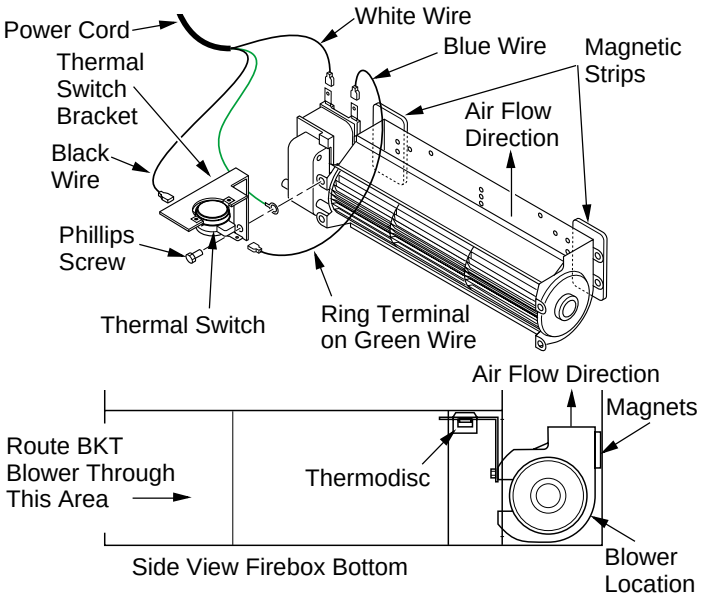


Figure 28 - Blower Model BKT

Blower Wiring Diagram

⚠ CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

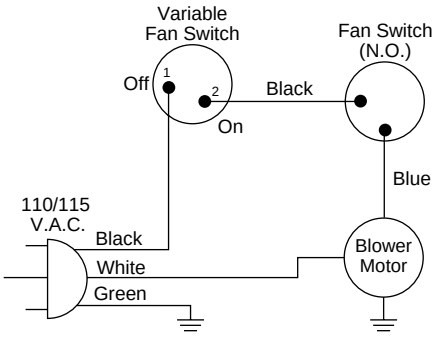


Figure 29 - Blower Wiring Diagram for Thermostat-Controlled Models

FIREPLACE INSTALLATION
Continued

INSTALLING GAS PIPING TO FIREPLACE LOCATION

⚠ WARNING: A qualified service person must connect fireplace to gas supply. Follow all local codes.

⚠ CAUTION: For propane/LP units, never connect fireplace directly to the propane/LP supply. This heater requires an external regulator (not supplied). Install the external regulator between the fireplace and propane/LP supply.

Installation Items Needed

Before installing fireplace, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve *
- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)

* A CSA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the CSA design-certified equipment shutoff valve from your retailer.

For propane/LP connection only, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water. If you do not reduce incoming gas pressure, fireplace regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 30. Pointing the vent down protects it from freezing rain or sleet.

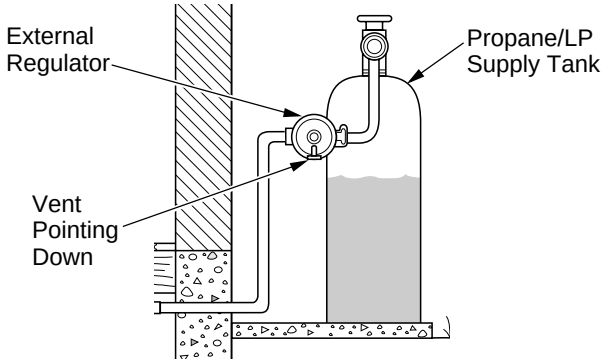


Figure 30 - External Regulator with Vent Pointing Down (Propane/LP Only)

⚠ CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to fireplace. If pipe is too small, undue loss of volume will occur.

Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from fireplace (see Figure 31).

IMPORTANT: Install main gas valve (equipment shutoff valve) in an accessible location. The main gas valve is for turning on or shutting off the gas to the appliance.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged fireplace valves.

⚠ WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

We recommend that you install a sediment trap/drip leg in supply line as shown in Figure 31. Locate sediment trap/drip leg where it is within reach for cleaning. Install in piping system between fuel supply and fireplace. Locate sediment trap/drip leg where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into fireplace gas controls. If sediment trap/drip leg is not installed or is installed wrong, fireplace may not run properly.

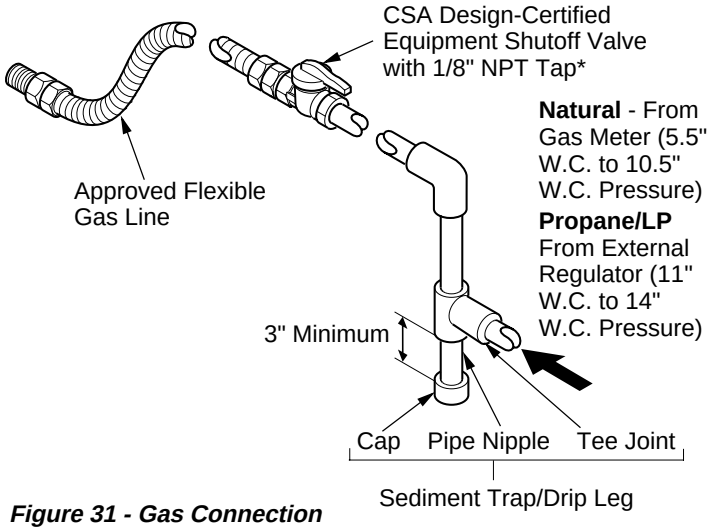

CSA Design-Certified Equipment Shutoff Valve with 1/8" NPT Tap*
Approved Flexible Gas Line
Natural - From Gas Meter (5.5" W.C. to 10.5" W.C. Pressure)
Propane/LP From External Regulator (11" W.C. to 14" W.C. Pressure)
3" Minimum
Cap
Pipe Nipple
Tee Joint
Sediment Trap/Drip Leg

Figure 31 - Gas Connection

* The CSA design-certified equipment shutoff valve may be supplied with the appliance or you can purchase it from your retailer.

FIREPLACE INSTALLATION
Continued

CONNECTING FIREPLACE TO GAS SUPPLY

Installation Items Needed

- 5/16" hex socket wrench or nut-driver
- sealant (resistant to propane/LP gas, not provided)

1. Open lower louver door panel by gently pulling forward.
2. Route flexible gas line (provided by installer) from equipment shutoff valve to fireplace. Route flexible gas supply line through one of the access holes on side of fireplace.
3. Attach flexible gas line from gas supply to control valve (see Figure 32).
4. Check all gas connections for leaks. See *Checking Gas Connections.*

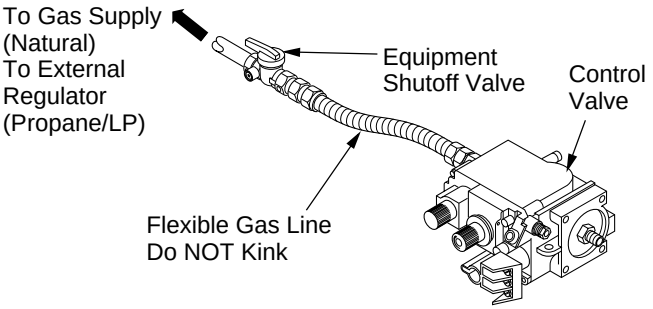


Figure 32 - Attaching Flexible Gas Line to Control Valve

CHECKING GAS CONNECTIONS

⚠ WARNING: Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

⚠ WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

Pressure Testing Gas Supply Piping System

Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

1. Disconnect fireplace and its individual equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig (3.5 kPa) will damage fireplace gas regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas fireplace or opening main gas valve located on or near gas meter for natural gas fireplace, or using compressed air.
4. Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.
5. Reconnect fireplace and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

1. Close equipment shutoff valve (see Figure 33).
2. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas fireplace or opening main gas valve located on or near gas meter for natural gas fireplace, or using compressed air.
3. Check all joints from propane/LP supply tank or gas meter to equipment shutoff valve (see Figure 34 for propane/LP or Figure 35 for natural gas). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

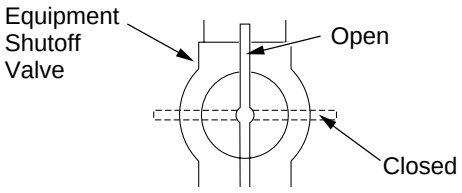


Figure 33 - Equipment Shutoff Valve

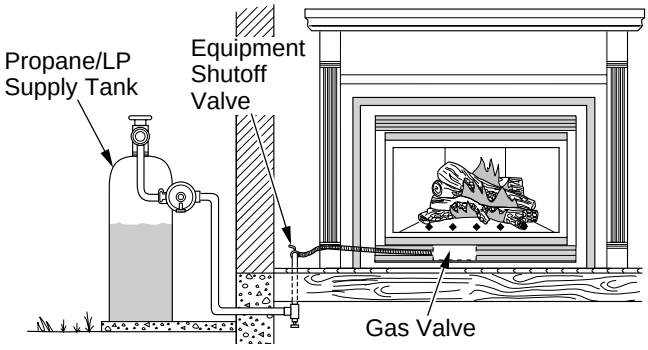


Figure 34 - Checking Gas Joints for Propane/LP Gas Fireplace

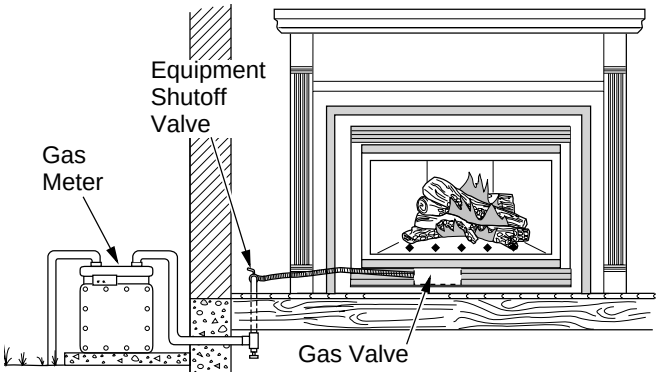


Figure 35 - Checking Gas Joints for Natural Gas Fireplace

FIREPLACE INSTALLATION
Continued

Pressure Testing Fireplace Gas Connections

1. Open equipment shutoff valve (see Figure 33, page 20).
2. Open propane/LP supply tank valve for propane/LP fireplace or main gas valve located on or near gas meter for natural gas fireplace.
3. Make sure control knob of fireplace is in the OFF position.
4. Check all joints from equipment shutoff valve to gas valve (see Figure 34 for propane/LP or Figure 35 for natural gas, page 20). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.
5. Light fireplace (see *Operating Fireplace*, pages 25 through 27). Check all other internal joints for leaks.
6. Turn off fireplace (see *To Turn Off Gas to Appliance*, page 25).

INSTALLING OPTIONAL WIRELESS HAND-HELD REMOTE CONTROL - GHRC AND GHRCT(A) SERIES

NOTICE: Use only alkaline batteries (not included).

Installing Remote Receiver

1. Open bottom louver and locate the switch bracket on the left.
2. Unscrew the switch bracket. Lean bracket forward so you are able to access the back of the remote receiver.
3. Locate the battery clip mounted on the back of the receiver. Slide a 9-volt alkaline battery (not included) through the clip (see Figure 36).
4. Attach the terminal wires to the battery.
5. Remove wire from TH to TPTH on control valve (see Figure 37).
6. Connect wires from receiver to TH and TPTH to control valve (see Figure 38).
7. Replace the switch bracket.

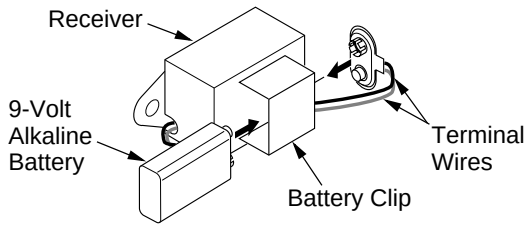


Figure 36 - Attaching Alkaline Battery to Receiver

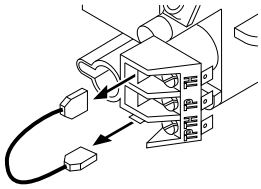


Figure 37 - Disconnecting TH to TPTH Wire

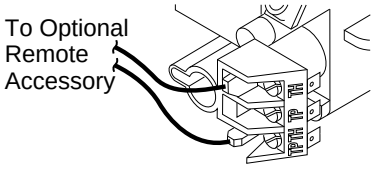


Figure 38 - Control Valve Terminals

Installing 9-Volt Alkaline Battery in Hand-Held Remote Control Unit

1. Remove battery cover on back of remote control unit.
2. Attach terminal wires to a 9-volt alkaline battery (not included). Place battery into the battery housing.
3. Replace battery cover onto remote control unit.

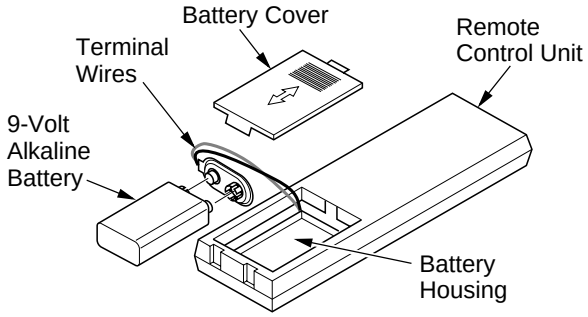


Figure 39 - Installing Alkaline Battery in Hand-Held Remote Control Unit ([C]GHRC)

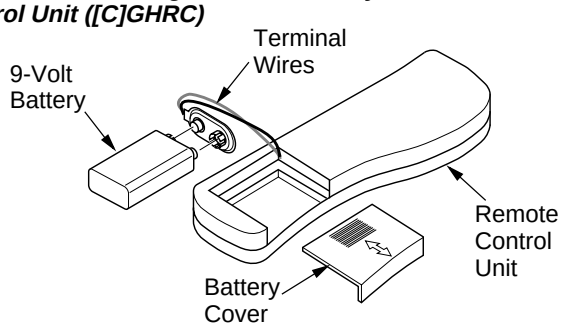


Figure 40 - Installing Battery in Hand-Held Remote Control Unit ([C]GHRCT[A] Series)

FIREPLACE INSTALLATION
Continued

REMOVING/REPLACING GLASS DOOR

⚠ CAUTION: Do not operate this fireplace with a broken glass door panel or without the glass door panel securely in place. For replacement part information see *Replacement Parts*, page 36.

⚠ CAUTION: Wear gloves and safety glasses while handling or removing broken glass. Do not remove if glass is hot. Keep children and pets away from glass.

⚠ WARNING: If fireplace has been running, turn off and unplug fireplace. Let cool before removing glass door or louvers.

Removing Louver Panels

Remove the top and bottom louver panels by simultaneously pulling both top end spring latches towards the center of the appliance until they are disengaged from the locating holes (see Figure 41). Repeat for bottom spring latches and pull the louvers outward. To install or replace items removed, simply reverse the procedures above.

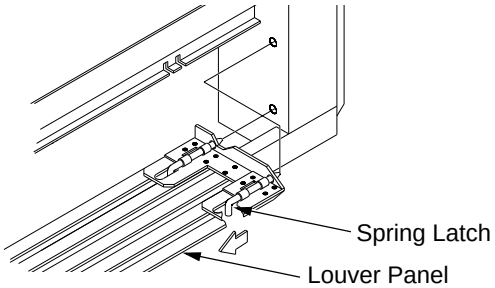


Figure 41 - Removing Louver Panel

Removing Glass Door

If replacement of glass is necessary, the entire assembly, glass and frame, must be replaced. If glass is broken, wear gloves and tape the remaining fragments onto the frame.

1. Remove screen assembly by pushing the rod either left or right and then down and forward to remove screen/rod assembly from the firebox. Set assembly aside.
2. Lift up on latches to unlock. There are two on top of firebox and two below firebox that hold glass door in place (see Figure 42).
3. While holding glass door to prevent it from falling and causing injury, remove the five screws from the hinge located on the left side of door frame assembly (see Figure 42).
4. Remount the new frame at the hinge with five new screws before closing door. This will ensure seating of the gasket.
5. Close glass door frame. Lock latches by placing the bar under the tab on door and pushing down and back on latch (see Figure 42).
6. Replace screen/rod assembly by reversing step 1.
7. Replace louvers by reversing procedure under *Removing Louver Panels*, page 22.

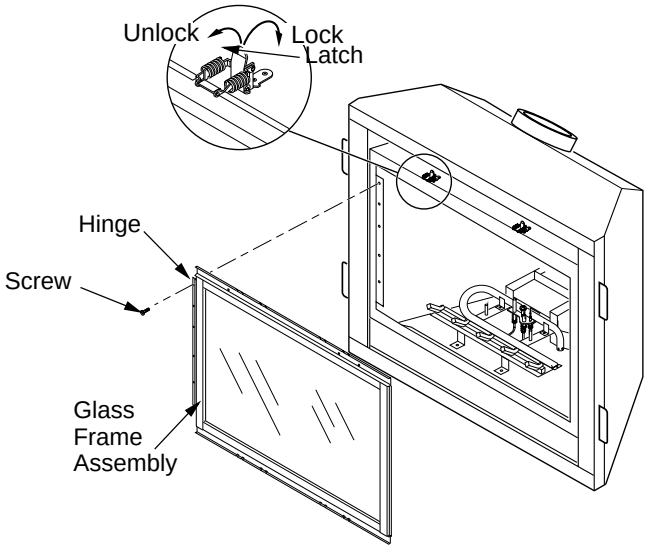


Figure 42 - Removing/Replacing Glass Door

Cleaning Glass Door

See *Cleaning and Maintenance* on page 28.

INSTALLING OPTIONAL BRICK LINER MODELS BL32D, BL36D(S), BL36DH(S)

⚠ WARNING: If fireplace has been running, turn off and unplug fireplace. Let cool before installing brick liner.

This brick liner kit is optional. You may purchase brick liner from your local retailer or see *Accessories*, page 37.

⚠ CAUTION: Always handle brick panels with two hands. Do not force brick panels into place. Excessive force will break brick panels.

1. Remove top and bottom louvers to allow access to door latches.
2. Unlock door latches and open glass door. See steps 1 and 2 of *Removing/Replacing Glass Door*, page 22.
3. If installing brick liner in new fireplace, go to step 4. If installing brick liner in an existing fireplace, carefully remove logs, lava rock, and ember material.

FIREPLACE INSTALLATION
Continued

4. Remove three screws from deflector shield on the inside top of firebox. Set shield and screws aside.
5. Install rear brick panel first. Rest bottom edge of panel on back edge of grate (see Figure 43).
6. Install top brick panel (36" Series only) by resting on the top of the rear panel. Hold the top brick panel in place and install left side brick panel by sliding it between the grate and the side of the firebox, securing top panel (see Figure 44).
7. Install the right brick panel using the same method described
8. Replace deflector shield using screws removed in step 4.
9. Follow instructions on page 24 to install logs, lava rock, and ember material.
10. Close glass door, lock latches on top and bottom of door and replace screen (see steps 5 and 6 of *Removing/Replacing Glass Door*, page 22).
11. Close top and bottom louvers.

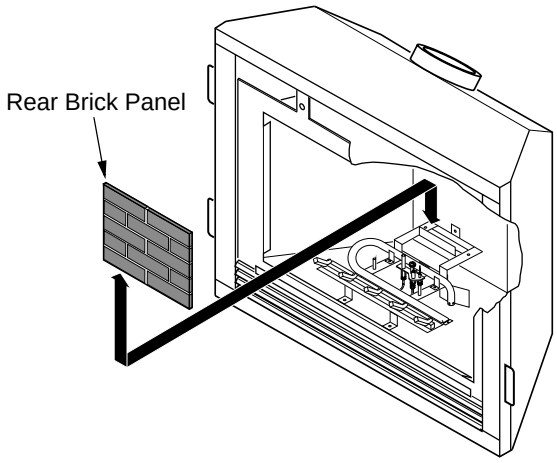


Figure 43 - Installing Rear Brick Panel

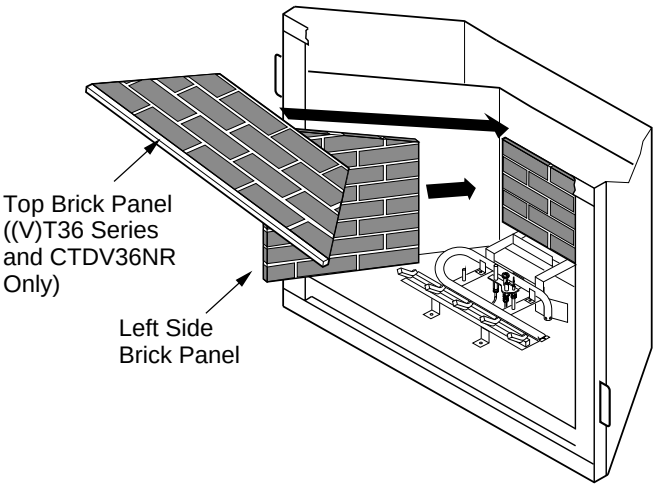


Figure 44 - Installing Left Side and Top Brick Panels

INSTALLING LOGS, LAVA ROCK AND GLOWING EMBERS

Note: 36" models shown. Logs will vary slightly for 32" models.

Each log is marked with a number. These numbers will help you identify the log when installing. It is very important to install these logs exactly as instructed. Do not modify logs. Only use logs supplied with fireplace.

Open louvers, remove screen, unlock door latches, and open glass door. See steps 1 and 2 of *Removing/Replacing Glass Door*, page 22. Install logs according to instructions for fireplace model numbers.

1. Place log #1 (rear log) on top of grate. Make sure the notches in the bottom of the log fit over the grate (see Figure 45).
2. Rest log #2 (large front log) on the pins on the front part of the grate (see Figure 46).

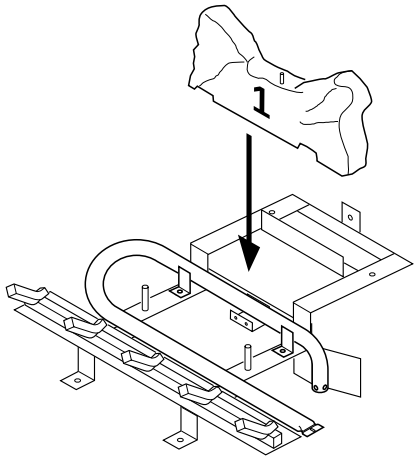


Figure 45 - Installing Log No. 1

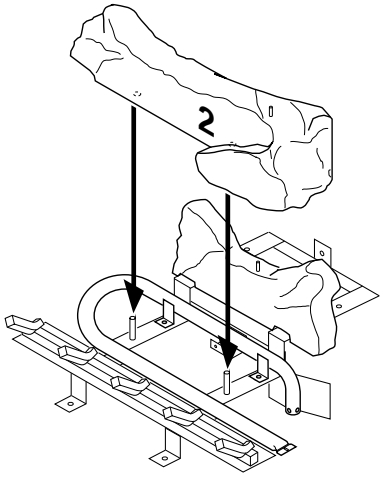


Figure 46 - Installing Log No. 2

FIREPLACE INSTALLATION
Continued

3. Place log #3 (crossover log) onto the rear and front logs. Make sure it is seated properly on the smooth surface on the front log and on the pin on the back log as shown in Figure 47.
4. Place log #4 (right log) on the pin on the right side of front log as shown in Figure 48.
5. Place log #5 (base log) onto the front left part of the grate making sure the notches fit over the prongs of the grate). See Figure 49.
6. Place log #6 (left log) onto two pins on the left side of back and front log. See Figure 49.
7. Place lava rock along sides and front of firebox bottom in areas that are visible only. It is not necessary to use all of the lava rock provided.

NOTICE: Do not put lava rock on burner or under burner. Placing lava rock on burner will cause performance problems.

8. Pull ember material apart into pieces no larger than a dime. Place these pieces loosely and sparingly directly onto the exposed section of the front burner and along the space between the burner and grate prongs (see Figure 50). This will create the glowing ember appearance as the flame touches the ember material. Do not block air slots by using too much ember material in one area. It is not necessary to use all of the ember material provided.
9. Close glass door, lock door latches, replace screen and close louvers (see steps 5 and 7 of *Removing/Replacing Glass Door*, page 22).

⚠ WARNING: The glass door must be securely in place before running this fireplace. Do not run this fireplace if glass is missing or broken.

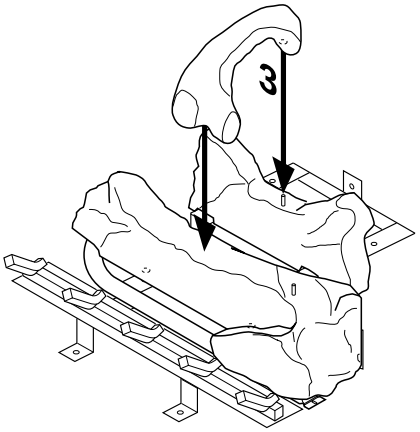


Figure 47 - Installing Log No. 3

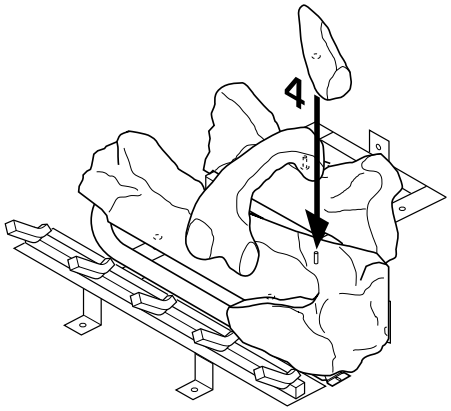


Figure 48 - Installing Log No. 4

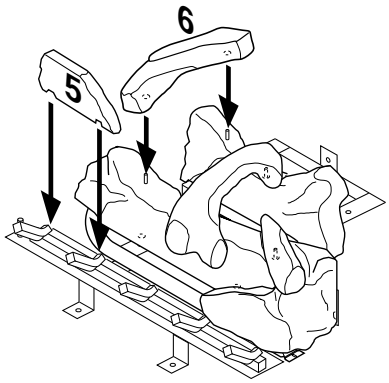


Figure 49 - Installing Logs No. 5 and No. 6

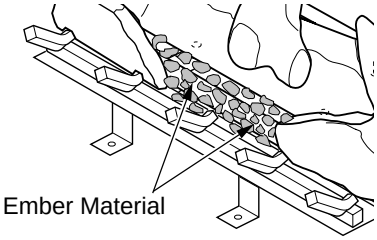


Figure 50 - Placing Ember Material on Burner

OPERATING FIREPLACE

FOR YOUR SAFETY READ BEFORE LIGHTING

⚠ WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electric switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. **STOP! Read the safety information above.**
2. **Open lower louver panel.**
3. **Disconnect the wire that runs from TH to TPTH from the control valve.**
4. **Turn off all electric power to the fireplace.**
5. **Push in gas control knob slightly and turn clockwise to "OFF".**
6. **Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.**
7. **The pilot is located by the main burner and should not require accessing for lighting.**
8. **Turn gas control knob counterclockwise to "PILOT".**
9. **Push in gas control knob all the way and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold for about one (1) minute after the pilot is lit. Release gas control knob and it will pop back. Pilot should remain lit. If it goes out, repeat steps 5 through 8.**
   - **If gas control knob does not pop up when released, stop and immediately call your service technician or gas supplier.**
   - **If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.**
10. **Reconnect the wire that runs from TH to TPTH to the control valve.**
11. **Turn on all electric power to the fireplace.**
12. **Turn gas control knob counterclockwise to "ON".**
13. **This valve is equipped with a HI/LO feature. Set fireplace input as desired.**
14. **Close lower louver panel.**

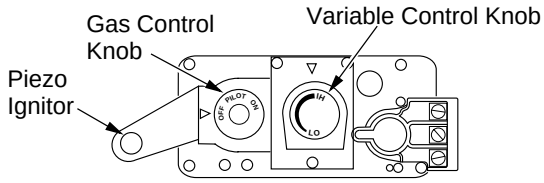


Figure 51 - Control Valve

TO TURN OFF GAS TO APPLIANCE

1. **Open lower louver panel.**
2. **Set selector switch in the OFF position to prevent draining battery.**
3. **Turn off all electrical power to the appliance if service is to be performed.**
4. **Push in gas control knob slightly and turn clockwise to "OFF".**
5. **Close lower louver panel.**

Shutting Off Burners Only (pilot stays lit)

You may shut off the burners and keep the pilot lit by doing one of the following:

1. **Turn gas control knob clockwise to the PILOT position.**
2. **Set selector switch in the OFF position.**

MANUAL LIGHTING PROCEDURE

1. **Remove glass door (see *Removing/Replacing Glass Door,* page 22.)**
2. **Follow steps 1 through 8 under *Lighting Instructions.***
3. **Depress gas control knob and light pilot with match.**
4. **Keep gas control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release gas control knob. Follow steps 10 through 14 under *Lighting Instructions.***
5. **Replace glass door (see *Removing/Replacing Glass Door,* page 22).**

OPERATING FIREPLACE
Continued

OPTIONAL REMOTE OPERATION

Note: **All remote control accessories must be purchased separately (see *Accessories,* page 37). Follow instructions included with the remote control.**

(Optional [C]GHRCT[A] Only) The thermostat control setting on the remote control unit can be set to any comfort level between HI and LO. The burners will turn on and off automatically to maintain the comfort level you select. The ideal comfort setting will vary by household depending upon the amount of space to be heated, the output of the central heating system, etc.

NOTICE: You must light the pilot before using the hand-held remote control unit. See *Lighting Instructions* on page 25.

1. **After lighting, let pilot flame burn for about one minute. Turn gas control knob to ON position. Adjust variable control knob anywhere between HI and LO. Slide the selector switch to the REMOTE position (see Figure 53). *Note:* The burners may light if hand-held remote ON button was on when selector switch was last turned off. You can now turn the burners on and off with the hand-held remote control unit.**
   ***IMPORTANT*: Do not leave the selector switch in the REMOTE position when the pilot is not lit. This will drain the battery.**
   ***IMPORTANT:* Be sure to press the ON/OFF buttons on the hand-held remote control unit for up to 3 seconds to assure proper operation.**

GHRC Series Operation:

2a. **Press the ON/OFF button to turn the burners on and off. When turning burners off, the pilot will remain lit.**

GHRCT(A) Series Operation:

2b. **Press the AUTO/ON/OFF button on the hand-held remote control (see Figure 54). The lights to the left of the button will show AUTO, ON, or OFF.**
   - **In the ON mode, the burners will ignite. The heater is in manual mode when ON is lit.**
   - **In the AUTO mode, the thermostat in the hand-held remote unit controls the room temperature. To increase the room temperature, press the top arrow of the TEMP button. To lower the room temperature, press the bottom arrow of the TEMP button. At higher settings the heater will run longer.**

   ***IMPORTANT:* This remote control has been specially engineered to take an air temperature sample every 5.5 minutes in the auto mode. It will not respond immediately to the temperature setting being turned up or down.**
   ***IMPORTANT:* The hand-held remote control unit must be near the heater. Do not keep the hand-held remote control unit too close to the heater. The thermostat on the hand-held remote control unit will heat up too quickly and turn the fireplace off.**

3. **To turn the burner off, press the AUTO/ON/OFF button until OFF lights. The pilot will remain lit.**
   ***IMPORTANT:* To turn the pilot off, manually turn the control knob on the heater to the OFF position.**

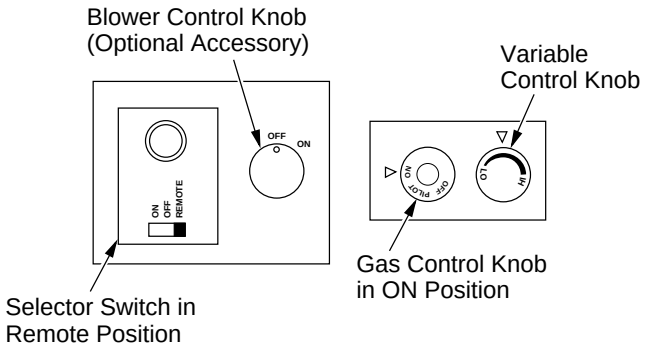


Figure 52 - Setting the Selector Switch, Gas Control Knob, and Variable Control Knob for Remote Operation

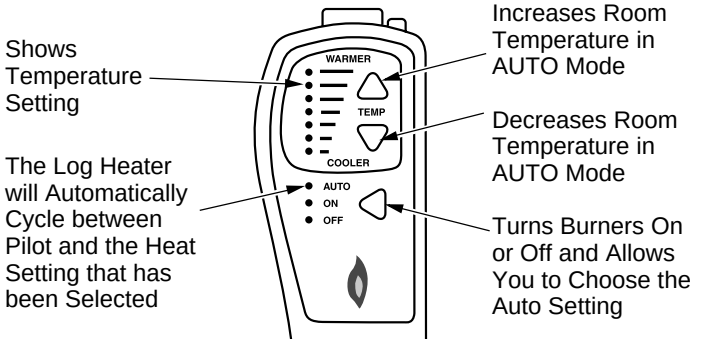


Figure 53 - Thermostat Hand-Held Remote Control Unit Selections ([C]GHRCT[A] Series Only)

OPERATING FIREPLACE
Continued

OPERATING OPTIONAL GWMT1 WALL MOUNTED THERMOSTAT

⚠ WARNING: Do not connect the thermostat to a power source. Electrical shock and/or a fire hazard will occur.

Light the fireplace as instructed in *Lighting Instructions* on page 25. Set wall thermostat to desired temperature.

This thermostat has been electronically calibrated at the factory and requires no adjustment or leveling.

Upon installation, the thermostat must be allowed to stabilize at room temperature for a minimum of 30 minutes for proper operation.

To turn the fireplace off, adjust thermostat to the lowest setting and turn the gas control knob back to PILOT. The pilot will remain lit.

***IMPORTANT:* To turn the pilot off, turn the gas control knob on the heater to the OFF position.**

OPERATING OPTIONAL BLOWER ACCESSORY

Locate the blower controls by opening the lower louver panel on the fireplace. Blower controls are located on the left side of the switch bracket to the left just inside the louver panel.

The BK manual blower and the BKT thermostatically-controlled blower have an ON setting and an OFF setting. The blower will only run when the switch is in the ON position. In the OFF position, the blower will not operate.

***Note for BKT Only:* If you are using BKT blower with optional thermostat (wall mounted or remote control) for the fireplace, your fireplace and blower will not turn on and off at the same time. The fireplace may run for several minutes before the blower turns on. After the heater modulates to the pilot position, the blower will continue to run. The blower will shut off after the firebox temperature decreases.**

The blower helps distribute heated air from the fireplace. Periodically check the louvers of the firebox and remove any dust, dirt, or other obstructions that will hinder the flow of air.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT ASSEMBLY

The pilot assembly is factory preset for the proper flame height. Alterations may have occurred during shipping and handling. Call a qualified service person to readjust the pilot if necessary.

The height of the thermopile must be 3/8" to 1/2" above the pilot flame as shown in Figure 55. The thermocouple must be at a height of about 1/8" above the pilot flame. The flame from the pilot burner must extend beyond both the thermocouple and thermopile.

If you pilot assembly does not meet these requirements:

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 25)
- see *Troubleshooting*, pages 29 through 31

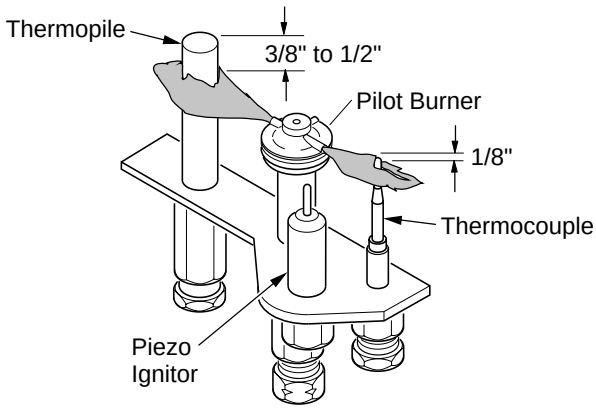


Figure 54 - Pilot Assembly

BURNER FLAME PATTERN

Burner flames will be steady; not lifting or floating. Flame patterns will be different from unit to unit and will vary depending on installation type and weather conditions.

If the vent configuration is installed incorrectly, the flames will lift or "ghost". This can be dangerous. Inspect the flames after installation to ensure proper installation and performance.

Figure 56 shows a typical flame pattern for (V)T32 and (V)T36 series models.

If burner flame pattern differs from that described:

- turn fireplace off (see *To Turn Off Gas to Appliance*, page 25)
- see *Troubleshooting*, pages 29 through 31

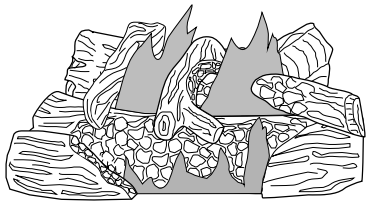


Figure 55 - Typical Flame Pattern for (V)T32 and (V)T36 Series Models

CLEANING AND MAINTENANCE

⚠ WARNING: Turn off fireplace and let cool before cleaning.

⚠ CAUTION: You must keep control areas, burners, and circulating air passageways of fireplace clean. Inspect these areas of fireplace before each use. Have fireplace inspected yearly by a qualified service person. Fireplace may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

GLASS DOOR

⚠ WARNING: Handle glass door panel with care. Do not strike, slam, or otherwise abuse glass. Do not operate fireplace with the glass door removed, cracked, or broken.

⚠ WARNING: Do not use abrasive cleaners as this may damage glass. Use a nonabrasive household glass cleaner to clean glass. Do not clean glass when hot.

Glass must be cleaned periodically. During start-up it is normal for condensation to form on the inside of the glass causing lint, dust, and other airborne particles to cling to the glass surface. During initial start-up a slight film may form on the glass due to paint curing. The glass should be cleaned several times with a non-ammonia, non-abrasive household cleaner and warm water after the first two weeks of operation. Thereafter, clean the glass two or three times during each heating season, depending on the usage and circumstances present. Refer to *Removing/Replacing Glass Door* on page 22 of this manual when removing glass door for cleaning.

⚠ WARNING: Only parts supplied by the manufacturer should be used when replacing broken or damaged glass door panel (see *Replacement Parts*, page 36). This glass door panel is a complete unit. No substitute materials may be used.

⚠ CAUTION: Wear gloves and safety glasses while handling or removing broken glass. Do not remove if glass is hot. Keep children and pets away from glass.

If glass has been broken, carefully remove glass door (see *Removing/Replacing Glass Door*, page 22). Vacuum all glass pieces with a shop vac.

⚠ CAUTION: Do not vacuum if pieces are hot.

Use only the tempered glass door replacement intended for this fireplace (see *Replacement Parts*, page 36 for detail on ordering). No substitutions may be made. See *Removing/Replacing Glass Door*, page 22 for instructions for replacing glass door.

⚠ WARNING: Do not operate fireplace with the glass door removed, cracked, or broken.

PILOT AND BURNERS

- Remove ember material before cleaning burners and replace when cleaning is complete.
- Burner and controls should be cleaned with compressed air to remove dust, dirt, or lint.
- Use a vacuum cleaner or small, soft bristled brush to remove excess dust, dirt, or lint.

LOGS

- If you remove logs for cleaning, refer to *Installing Logs, Lava Rock, and Glowing Embers*, page 24, to properly replace logs.
- Use a vacuum cleaner to remove any carbon buildup on logs.
- Replace log(s) if broken. See *Replacement Parts* on page 36.
- Replace ember material periodically as needed. See *Replacement Parts* on page 36.

VENTING SYSTEM

Conduct annual inspection of the venting system following these guidelines:

1. Check areas of venting system that are exposed to the weather for corrosion (rust spots or streaks and, in extreme cases, holes). Have these items replaced immediately by a qualified service person.
2. Remove the vent cap and shine a flashlight into the vent. Remove any foreign material.
3. Check for evidence of excessive condensation. Continuous condensation can cause corrosion of caps, pipes, and fittings and can be caused by having excessive lateral runs, too many elbows, or exterior portions of the system being exposed to cold weather.
4. Inspect joints to verify that no pipe section or fitting has been disturbed and loosened. Check mechanical supports such as wall straps for rigidity.

TROUBLESHOOTING

Note: For additional help, visit DESA International's technical service web site at **www.desatech.com**.

Note: All troubleshooting items are listed in order of operation.

⚠ WARNING: Turn off heater and let cool before servicing. Only a qualified service person should service and repair heater.

⚠ CAUTION: Never use a wire, needle, or similar object to clean pilot. This can damage pilot unit.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at pilot	1. Ignitor electrode not connected to ignitor cable	1. Reconnect ignitor cable
	2. Ignitor cable pinched or wet	2. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry
	3. Piezo ignitor nut is loose	3. Tighten nut holding piezo ignitor. Nut is located behind the mounting bracket
	4. Broken ignitor cable	4. Replace ignitor cable
	5. Bad piezo ignitor	5. Replace piezo ignitor
	6. Ignitor electrode broken	6. Replace pilot assembly
	7. Ignitor electrode positioned wrong	7. Replace pilot assembly
When ignitor button is pressed, there is spark at pilot but no ignition	1. Gas supply turned off or equipment shutoff valve closed	1. Turn on gas supply or open equipment shutoff valve
	2. Gas control knob not in PILOT position	2. Turn gas control knob to PILOT position
	3. Gas control knob not pressed in while in PILOT position	3. Press in gas control knob while in PILOT position
	4. Air in gas lines when installed	4. Continue holding down control knob. Repeat igniting operation until air is removed
	5. Depleted gas supply (propane/LP models only)	5. Contact local propane/LP gas company
	6. Pilot is clogged	6. Clean pilot (see *Cleaning and Maintenance*, page 28) or replace pilot assembly
	7. Gas regulator setting is not correct	7. Replace gas control
Pilot lights but flame goes out when control knob is released	1. Gas control knob not fully pressed in	1. Press in gas control knob fully
	2. Gas control knob not pressed in long enough	2. After pilot lights, keep gas control knob pressed in 30 seconds
	3. Equipment shutoff valve not fully open	3. Fully open equipment shutoff valve
	4. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged pilot	4. A) Contact local natural or propane/LP gas company B) Clean pilot (see *Cleaning and Maintenance*, page 28) or replace pilot assembly
	5. Thermocouple connection loose at control valve	5. Hand tighten until snug, then tighten 1/4 turn more
	6. Thermocouple damaged	6. Replace pilot assembly
	7. Control valve damaged	7. Replace control valve

TROUBLESHOOTING
Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner does not light after pilot is lit	1. Burner orifice clogged	1. Clean burner (see *Cleaning and Maintenance*, page 28) or replace burner orifice
	2. Inlet gas pressure is too low	2. Contact local propane/LP or natural gas company
	3. Thermopile leads disconnected or improperly connected	3. Reconnect leads
	4. Thermopile is defective	4. Replace thermopile
Delayed ignition burner	1. Manifold pressure is too low	1. Contact local propane/LP or natural gas company
	2. Burner porting or orifice clogged	2. Clean burner (see *Cleaning and Maintenance*, page 28) or replace burner orifice
Burner backfiring during combustion	1. Burner orifice is clogged or damaged	1. Clean burner (see *Cleaning and Maintenance*, page 28) or replace burner orifice
	2. Damaged burner	2. Replace damaged burner
	3. Gas regulator defective	3. Replace gas control
Slight smoke or odor during initial operation	1. Residues from manufacturing processes and logs curing	1. Problem will stop after a few hours of operation
Heater produces a whistling noise when burner is lit	1. Turning gas control knob to HI position when burner is cold	1. Turn gas control knob to LO position and let warm up for a minute
	2. Air in gas line	2. Operate burner until air is removed from line. Have gas line checked by local propane/LP or natural gas company
	3. Dirty or partially clogged burner orifice	3. Clean burner (see *Cleaning and Maintenance*, page 28) or replace burner orifice
Glass soots	1. Flame impingement on logs	1. Adjust the log set so that the flame does not excessively impinge on it
	2. Debris around burner air mixer	2. Inspect the opening at the base of the burner to see that it is NOT packed with any type of material
Fireplace produces a clicking/ticking noise just after burners are lit or shut off	1. Metal expanding while heating or contracting while cooling	1. This is common. If noise is excessive, contact qualified service person
Remote does not function	1. Battery is not installed or battery power is low	1. Replace 9-volt batteries in receiver and remote control

TROUBLESHOOTING
Continued

⚠ WARNING: If you smell gas
- **Shut off gas supply.**
- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Fireplace produces unwanted odors	1. Gas leak. **See Warning statement above**	1. Locate and correct all leaks (see *Checking Gas Connections*, page 20)
Fireplace shuts off in use	1. High or gusting winds	1. Fireplace has been tested for up to 40mph winds. However, extreme conditions may occur. See *Lighting Instructions* on page 25
	2. Low line pressure	2. Contact local propane/LP or natural gas company
	3. Pilot is partially clogged	3. Clean pilot (see *Cleaning and Maintenance*, page 28)
	4. Inner vent pipe leaking exhaust gasses into system	4. Locate and correct all leaks (see *Checking Gas Connections*, page 20)
	5. Glass too loose and air tight gasket leaks in corners after usage	5. Tighten glass
	6. Bad thermopile or thermocouple	6. Replace faulty component
	7. Improper vent cap installation	7. Check for proper installation and freedom from debris or blockage
Gas odor even when control knob is in OFF position	1. Gas leak. **See Warning statement above**	1. Locate and correct all leaks (see *Checking Gas Connections*, page 20)
	2. Control valve defective	2. Replace control valve
Gas odor during combustion	1. Gas leak. **See Warning statement above**	1. Locate and correct all leaks (see *Checking Gas Connections*, page 20)
Dark residue on logs or inside of fireplace	1. Improper log placement	1. Properly locate logs (see *Installing Logs, Lava Rock, and Glowing Embers*, page 24)
	2. Air holes at burner inlet blocked	2. Clean out air holes at burner inlets. Periodically repeat as needed
	3. Burner flame holes blocked	3. Remove blockage

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized retailers of this product. If they can not supply original replacement part(s), call DESA International's Customer Service Department at 1-866-672-6040.

When calling DESA International, have ready

- your name
- your address
- model and serial numbers of your fireplace
- how fireplace was malfunctioning
- type of gas used (propane/LP or natural gas)
- purchase date

Usually, we will ask you to return the part to the factory.

PARTS NOT UNDER WARRANTY

Contact authorized retailers of this product. If they can not supply original replacement part(s), call DESA International at 1-866-672-6040 for referral information.

When calling DESA International, have ready

- model number of your fireplace
- the replacement part number

SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- fireplace will not produce specified heat
- propane/LP gas supply might be low (propane/LP units only)

You may feel your gas pressure is too low. If so, contact your local gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA International's Customer Service Department at 1-866-672-6040. When calling please have your model and serial numbers of your heater ready.

You can also visit DESA International's technical service web site at **www.desatech.com**.

SPECIFICATIONS

	CHDV32NR (V)T32N(R)	CTDV36NR (V)T36N(R)	(V)T32P(R)	(V)T36P(R)
Btu	12,000/18,000 Btu/hr	18,000/26,000 Btu/hr	11,000/17,000 Btu/hr	17,000/24,000 Btu/hr
Gas Type	Natural	Natural	Propane/LP	Propane/LP
Ignition	Piezo	Piezo	Piezo	Piezo
Manifold Pressure	3.5" w.c.	3.5" w.c.	10.0" w.c.	10.0" w.c.
Minimum Inlet Supply Pressure	5.5" w.c.	5.5" w.c.	11.0" w.c.	11.0" w.c.
Dimension, Inches/mm (HxWxD) Fireplace (Actual size of firebox. Measurements do not include nailing flanges or standoffs).	32 1/4" x 34 1/2" x 16 5/8" 819 x 876 x 422 mm	36" x 41" x 21 1/8" 914 x 1041 x 537 mm	32 1/4" x 34 1/2" x 16 5/8" 819 x 876 x 422 mm	36" x 41" x 21 1/8" 914 x 1041 x 537 mm
Carton	33 1/2" x 37 1/2" x 17 1/2" 851 x 953 x 445 mm	38" x 44" x 22" 965 x 1118 x 559 mm	33 1/2" x 37 1/2" x 17 1/2" 851 x 953 x 445 mm	38" x 44" x 22" 965 x 1118 x 559 mm
Weight, lbs/kg* Fireplace	80 lbs/36 kg	120 lbs/55 kg	80 lbs/36 kg	120 lbs/55 kg
Shipping	83 lbs/38 kg	123 lbs/56 kg	83 lbs/38 kg	123 lbs/56 kg

*For refractory lined models add 45 pounds for 32" models and 60 pounds for 36" models.

ACCESSORIES

Notice: **All accessories may not be available for all fireplace models.**

Purchase these fireplace accessories from your local retailer. If they can not supply these accessories, call DESA International's Sales Department at 1-866-672-6040. for information. You can also write to the address listed on the back page of this manual.

BRICK LINER (Not Shown)

BL32D - 32" Refractory Brick Liner Kit
BL36D - 36" Textured Refractory Brick Liner Kit
BL36DS - 36" Standard Refractory Brick Liner Kit
BL36DH - 36" Textured Refractory Herringbone Brick Liner Kit
BL36DHS - 36" Standard Refractory Herringbone Brick Liner Kit

This brick liner adds a touch of style to your direct-vent fireplace. Complete installation and operation instructions included in this manual.

FLEXIBLE GAS LINE CONNECTOR - GA5081 (Not Shown)

For all models.

PROPANE/NATURAL GAS CONVERSION KIT (Not Shown) Included with CHDV32 and CTDV36 Models

PCDM-32T - Propane/LP Gas Conversion Kit for 32" Direct-Vent Millivolt Fireplace
PCDM-36T - Propane/LP Gas Conversion Kit for 36" Direct-Vent Millivolt Fireplace
NCDM-32T - Natural Gas Conversion Kit for 32" Direct-Vent Millivolt Fireplace
NCDM-36T - Natural Gas Conversion Kit for 36" Direct-Vent Millivolt Fireplace

FACE/LOUVER PANEL KIT (Not Shown)

RLD32 - 32" Rolled Louver Panels - Black
RLD36 - 36" Rolled Louver Panels - Black
FPD36 - 36" Filligree Panel Kit - Black
FPD36B - 36" Filligree Panel Kit - Brushed Brass
FPD36P - 36" Filligree Panel Kit - Platinum
FPD36PB - 36" Filligree Panel Kit - Polished Brass

LOUVER TRIM KIT (Rolled Louvers Only) (Not Shown)

LT32B - 32" Rolled Louver Trim Kit - Brushed Brass
LT32P - 32" Rolled Louver Trim Kit - Platinum
LT32PB - 32" Rolled Louver Trim Kit - Polished Brass
LT36B - 36" Rolled Louver Trim Kit - Brushed Brass
LT36P - 36" Rolled Louver Trim Kit - Platinum
LT36PB - 36" Rolled Louver Trim Kit - Polished Brass

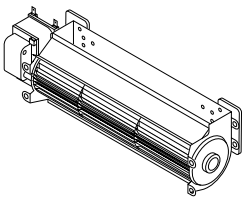
DEFLECTION HOODS (Not Shown)

HD32 - 32" Hood - Black (2" Brow)
HD36 - 36" Hood - Black (2" Brow)

PERIMETER TRIM KIT (Not Shown)

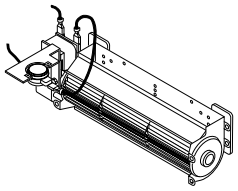
PT32 - 32" Perimeter Trim Kit - Black
PT32B - 32" Perimeter Trim Kit - Brushed Brass
PT32P - 32" Perimeter Trim Kit - Platinum
PT32PB - 32" Perimeter Trim Kit - Polished Brass
PT36 - 36" Perimeter Trim Kit - Black
PT36B - 36" Perimeter Trim Kit - Brushed Brass
PT36P - 36" Perimeter Trim Kit - Platinum
PT36PB - 36" Perimeter Trim Kit - Polished Brass

MANUAL BLOWER KIT - BK



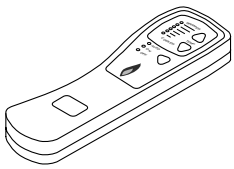
Manual variable control blower accessory provides better heat distribution. Complete installation and operation instructions included in this manual.

THERMOSTATICALLY-CONTROLLED BLOWER KIT - BKT



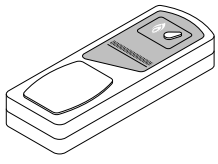
Provides better heat distribution. Blower turns off and on automatically, as needed. Complete installation and operation instructions included in this manual.

RECEIVER AND HAND-HELD THERMOSTAT REMOTE CONTROL KIT GHRCT(A) SERIES



Allows the fireplace to be operated in a manually or thermostatically-controlled mode. You can adjust your heat settings and turn the heater on or off without leaving the comfort of your easy chair.

RECEIVER AND HAND-HELD ON/OFF REMOTE CONTROL KIT GHRC SERIES



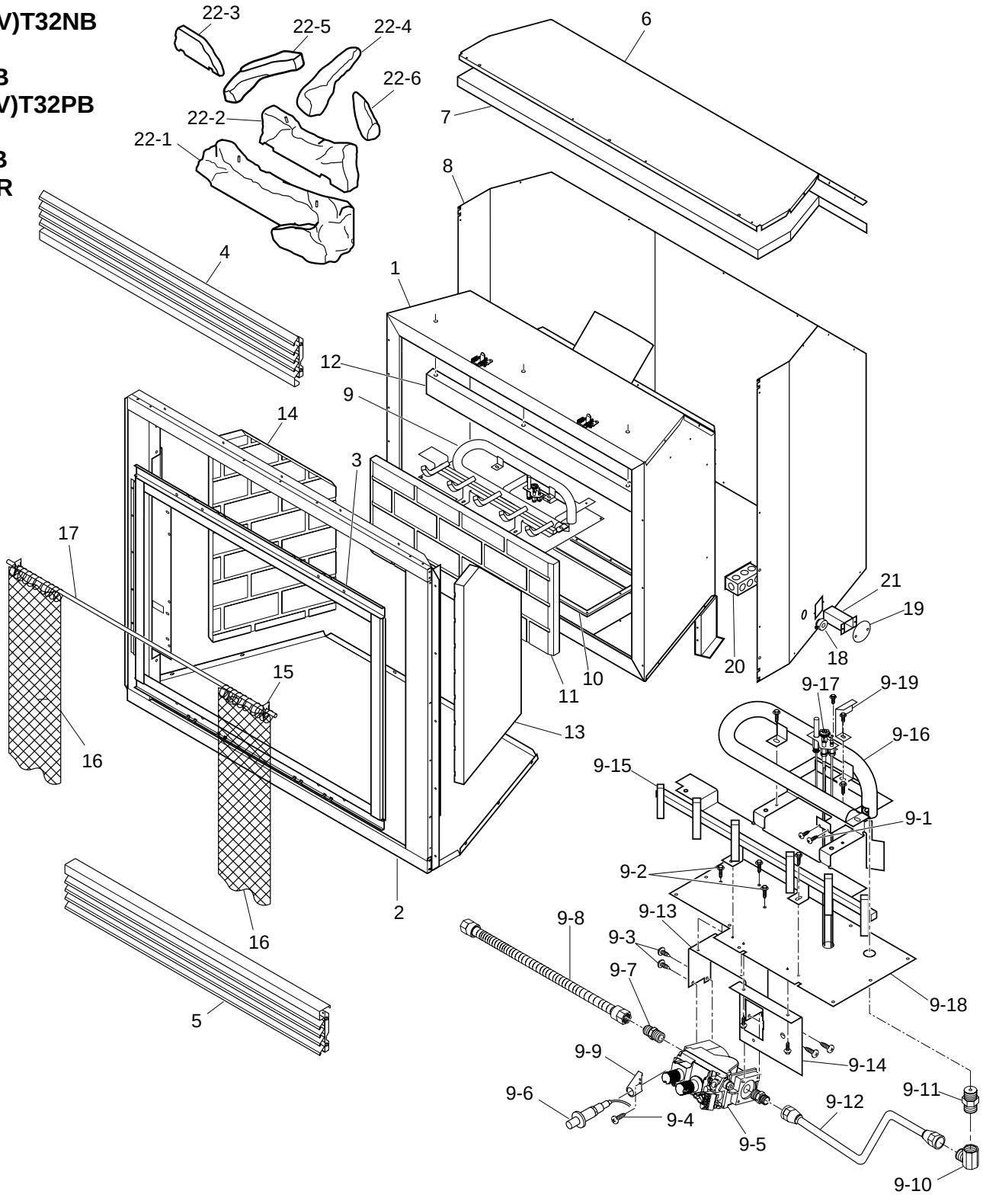
Allows the heater to be turned on and off conveniently.

WALL MOUNTED THERMOSTAT CONTROL KIT GWMT1 (Not Shown)

Allows easy wall access for thermostatic operation of your fireplace.

ILLUSTRATED PARTS BREAKDOWN

(V)T32N, (V)T32NB
(V)T32NR
(V)T32NRB
(V)T32P, (V)T32PB
(V)T32PR
(V)T32PRB
CHDV32NR



PARTS LIST

(V)T32N, (V)T32NB, (V)T32NR, (V)T32NRB, (V)T32P, (V)T32PB, (V)T32PR, (V)T32PRB, CHDV32NR

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	**	Firebox Assembly	1
2	**	Face Weldment	1
3	108892-01	Door Assembly (T & CHDV Models Only)	1
	108892-02	Door Assembly (VT Models Only)	1
4	109155-01	Top Stamped Panel Assy	1
		T32N/P, T32NB/PB Models	
	108903-01	Top Rolled Louver Assy T32NR/PR,	1
		T32NRB/PRB & CHDV32NR Models	
5	109155-02	Bottom Stamped Panel Assy	1
		T32N/P, T32NB/PB Models	
	108903-02	Bottom Rolled Louver Assy (T32NR/PR,	
		T32NRB/PRB, CHDV32NR Models)	1
6	108895-01	Fireplace Top	1
7	109096-01	Fireplace Top Insulation	1
8	**	Fireplace Surround	1
9	108885-01	Burner Assembly (Natural)	1
	108885-02	Burner Assembly (Propane/LP)	1
9-1	11102	Screw #8-32 x 3/8 PPH Zinc	2
9-2	11105	Screw #10 x 1/2 Zinc	9
9-3	11179	Screw #10-24 x 1/4 Zinc	4
9-4	11237	Screw, Trilab M4 x 8mm	1
9-5	14389	Millivolt Valve (Natural)	1
	14390	Millivolt Valve (Propane/LP)	1
9-6	14492	Piezo Ignitor	1
9-7	14500	Brass Fitting	2
9-8	14253	Flexible Connector	1
9-9	14511	Ignitor Bracket	1
9-10	14528	Brass Elbow Fitting	1
9-11	104506-25	Orifice (Natural)	1
	14514	Orifice (Propane/LP)	1
9-12	104509-02	Aluminum Tubing Assy	1
9-13	26808	Valve Bracket	1
9-14	26827	Switch Bracket	1
9-15	108886-01	Base Grate Assembly	1
9-16	108891-01	Burner	1
9-17	108084-02	Pilot Assembly (Natural)	1
	108084-03	Pilot Assembly (Propane/LP)	1
9-18	108889-01	Burner Base Assembly	1
9-19	27113	Air Deflector	1
10	108890-01	Burner Base Gasket	1
11	108897-01	Rear Refractory Brick Panel	
		(B Models Only)	1
12	109082-03	Heat Shield	1
13	108901-01	Right Refractory Brick Panel	
		(B Models Only)	1
14	108901-02	Left Refractory Brick Panel	
		(B Models Only)	1
15	11418	Push-On Nut	2
16	108440-01	Screen	2
17	109479-01	Screen Rod	1
18	14123	Strain Relief	1
19	21171	Gas Knock-Out Cover	2
20	24353	Handy Box Assembly	1
21	24460	Gas Conduit Assembly	1
22	109222-01	Log Set	1
22-1	109403-01	Front Log (Log 1)	1
22-2	109404-01	Rear Log (Log 2)	1
22-3	109407-01	Base Log (Log 3)	1
22-4	109406-01	Crossover Log (Log 4)	1
22-5	109405-01	Left Top Log (Log 5)	1
22-6	109408-01	Right Top Log (Log 6)	1

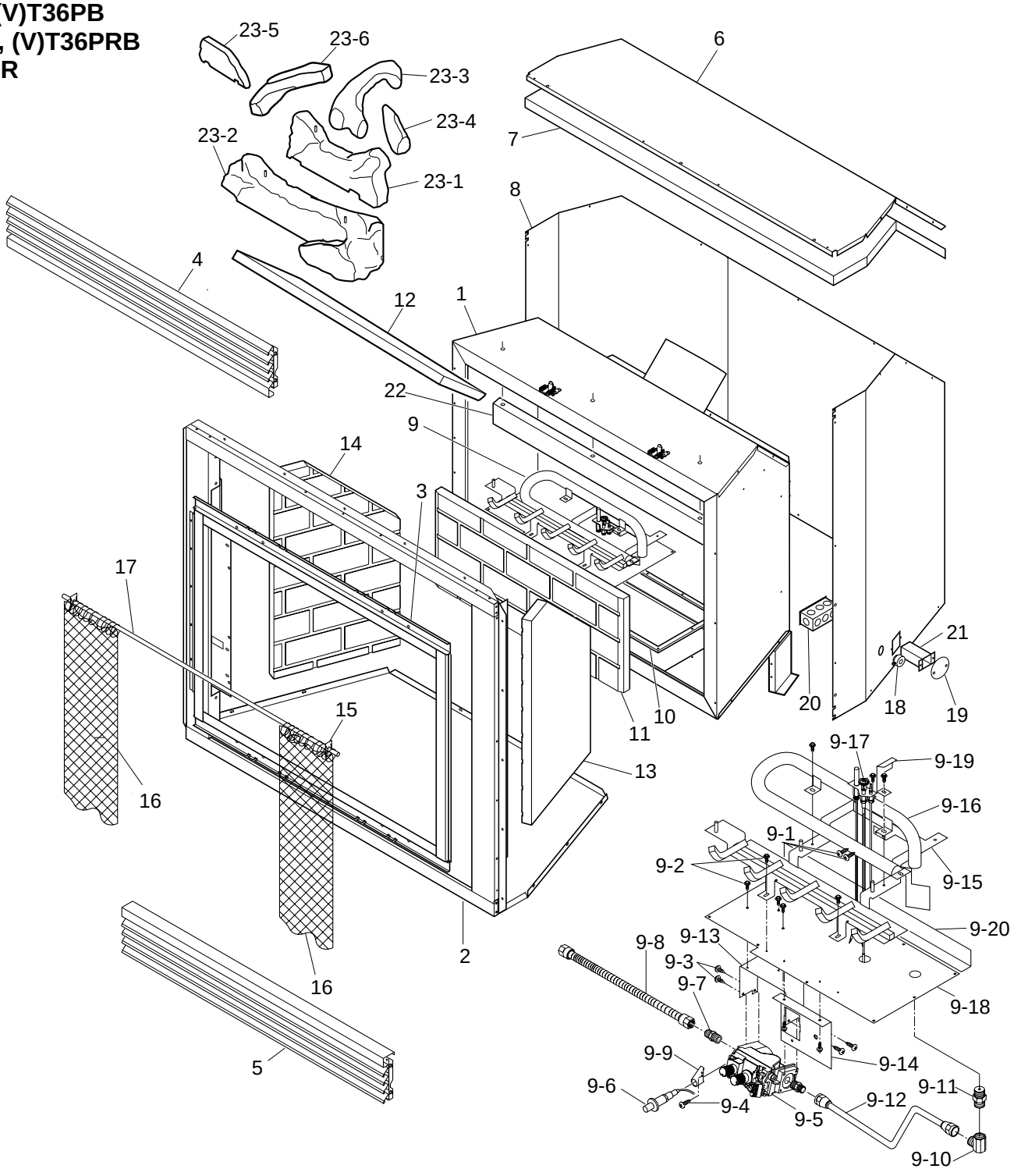
PARTS AVAILABLE - NOT SHOWN

25487	Lava Rock/Bag Assy	1
27253	Notice Label	1
55240	Vent Label	1
PCDM-32T	Conversion Kit (CHDV32NR only)	1

** Not a field replaceable part.

ILLUSTRATED PARTS BREAKDOWN

(V)T36N, (V)T36NB, (V)T36NR, (V)T36NRB,
(V)T36P, (V)T36PB
(V)T36PR, (V)T36PRB
CTDV36NR



PARTS LIST

This list contains replaceable parts used in your fireplace. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

(V)T36N, (V)T36NB, (V)T36NR, (V)T36NRB, (V)T36P, (V)T36PB, (V)T36PR, (V)T36PRB, CTDV36NR

KEY NO.	PART NUMBER	DESCRIPTION	QTY.
1	**	Firebox Assembly	1
2	**	Face Weldment	1
3	108010-01	Door Assembly	1
		(T and CTDV Models Only)	
	108010-02	Door Assembly (VT Models Only)	1
4	108687-01	Top Panel Louver Assy	1
		T36N/P, T36NB/PB Models	
	108011-01	Top Rolled Louver Assy; CTDV36NR,	1
		T36NR/PR, T36NRB/PRB Models	
5	108687-02	Bottom Panel Louver Assy	1
		T36N/P, T36NB/PB Models	
	108011-02	Bottom Rolled Louver Assy	1
		CTDV36NR, T36NR/PR,	
		T36NRB/PRB Models	
6	108015-01	Fireplace Top	1
7	108016-01	Fireplace Top Insulation	1
8	**	Fireplace Surround	1
9	108074-01	Burner Assembly (Natural)	1
	108074-02	Burner Assembly (Propane/LP)	1
9-1	11102	Screw #8-32 x 3/8 PPH Zinc	2
9-2	11105	Screw #10 x 1/2 Zinc	9
9-3	11179	Screw #10-24 x 1/4 Zinc	4
9-4	11237	Screw, Trilab M4 x 8mm	1
9-5	14389	Millivolt Valve (Natural)	1
	14390	Millivolt Valve (Propane/LP)	1
9-6	14492	Piezo Ignitor	1
9-7	14500	Brass Fitting	2
9-8	14508	Flexible Connector	1
9-9	14511	Ignitor (SIT) Bracket	1
9-10	14528	Brass Elbow Fitting	1
9-11	104506-23	Orifice (Natural)	1
	14596	Orifice (Propane/LP)	1
9-12	14576	Aluminum Tubing Assy	1
9-13	26808	Valve Bracket	1
9-14	26827	Switch Bracket	1
9-15	108007-01	Base Grate Assy	1
9-16	104504-03	Burner	1
9-17	108084-02	Pilot Assembly (Natural)	1
	108084-03	Pilot Assembly (Propane/LP)	1
9-18	108075-01	Burner Base Assembly	1
9-19	27113	Air Deflector	1
9-20	109144-01	Air Baffle (Natural Gas Only)	1
10	108076-01	Burner Base Gasket	1
11	see below	Rear Refractory Brick Panel	1
12	see below	Top Refractory Brick Panel	1
13	see below	Right Refractory Brick Panel	1
14	see below	Left Refractory Brick Panel	1
15	11418	Push-On Nut	2
16	12105	Screen	2
17	108719-01	Screen Rod	1
18	14123	Strain Relief	1
19	21171	Gas Knock-Out Cover	2
20	24353	Handy Box Assembly	1
21	24460	Gas Conduit Assembly	1
22	109082-01	Heat Shield	1
23	109006-01	Log Set	1
23-1	109007-01	Rear Log (Log 1)	1
23-2	110182-01	Front Log (Log 2)	1
23-3	109008-01	Crossover Log (Log 3)	1
23-4	107347-01	Right Top Log (Log 4)	1
23-5	109009-01	Base Log (Log 5)	1
23-6	107348-01	Left Top Log (Log 6)	1
PARTS AVAILABLE - NOT SHOWN			
	25487	Lava Rock/Bag Assy	1
	27253	Notice Label	1
	55240	Vent Label	1
	PCDM-36T	Conversion Kit (CTDV36NR Only)	1

** Not a field replaceable part.

(V)T36N, (V)T36NR (V)T36P, (V)T36PR	T36NB, T36NRB T36PB, T36PRB	VT36NB, VT36NRB VT36PB, VT36PRB CTDV36NR	DESCRIPTION	QTY.
___	108080-02	108080-01	Rear Refractory Brick Panel	1
___	108081-02	108081-01	Top Refractory Brick Panel	1
___	108082-02	108082-01	Right Refractory Brick Panel	1
___	108083-02	108083-01	Left Refractory Brick Panel	1

WARRANTY INFORMATION

KEEP THIS WARRANTY

Model _____

Serial No. _____

Date Purchased _____

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

LIMITED WARRANTY
DIRECT-VENT FIREPLACE

DESA International warrants this product to be free from defects in materials and components for two (2) years from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized retailers of this product and/or DESA International who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO TWO (2) YEARS ON ALL COMPONENTS FROM THE DATE OF FIRST PURCHASE; AND DESA INTERNATIONAL'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND DESA INTERNATIONAL SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For information about this warranty write:

DESA™ INTERNATIONAL
2701 Industrial Drive
P.O. Box 90004
Bowling Green, KY 42102-9004
www.desatech.com

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